



REPORT OF THE
**Hydro-Electric Power
Commission**
OF ONTARIO
1921


WILL MACLACHLAN, Esq.

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W. M. MacLachlan

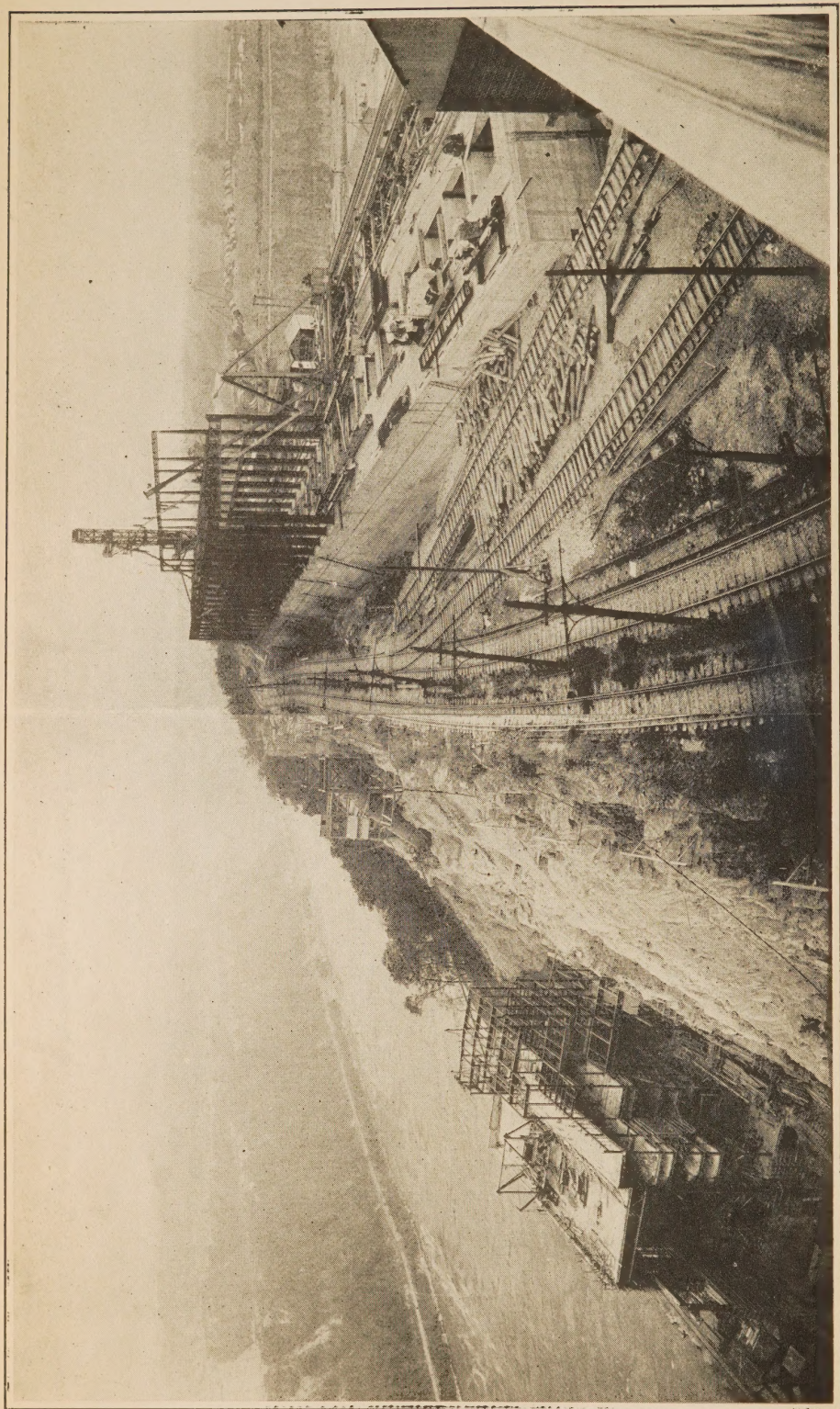


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Queenston Power House: General View of Power House, Screen House and Forebay. September 1st, 1921.

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(Fourteenth) Annual Report

OF THE

HYDRO-ELECTRIC POWER
COMMISSION

OF THE

PROVINCE OF ONTARIO

FOR THE YEAR ENDED OCTOBER 31st

1921

PRINTED BY ORDER OF
THE LEGISLATIVE ASSEMBLY OF ONTARIO



TORONTO

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1922

Fourteenth Annual Report

OF THE

HYDRO-ELECTRIC POWER COMMISSION

OF THE

PROVINCE OF ONTARIO

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To His Honour, THE HONOURABLE HARRY COCKSHUTT.

Lieutenant-Governor of Ontario.

MAY IT PLEASE YOUR HONOUR:

The undersigned has the honour to present to your Honour, the Fourteenth Annual Report of the Hydro-Electric Power Commission of Ontario, for the fiscal year ending October 31st, 1921.

This Report covers all of the Commission's activities and also embodies those of the Municipal Electric Utilities operating in conjunction with the various systems to supply electric service to the people of the Province. The financial statements, the statistical data, and the general information herein submitted have been so arranged and presented as to give the reader a ready and intelligent grasp of every important feature of the Commission's operations.

The Report deals with the various operations of the Commission for the past year with respect to 13 main systems to which are connected 233 municipalities, 47 townships and rural districts and 48 commercial institutions. The Report also shows the cumulative results for the various periods during which operation has been maintained.

Despite the continued commercial depression prevailing throughout the year, and the continued high cost of material and labour, the Commission is again able to state that this year's operation is the most successful in its history. This is especially true of the Wasdells system, the Muskoka system and the Niagara system.

It is most gratifying to the Commission to be able to report that the increase in revenue in the municipalities in the Niagara district is such as to confirm its opinion that the revenue from the municipalities on this system will be sufficient to carry the Queenston-Chippawa development without the necessity, with but few exceptions, of having to increase the rates *to consumers*.

At the beginning of the year the Commission determined a schedule of rates to cover the estimated cost of service to all municipalities. On all of the systems the total revenue for the year under these rates was \$5,419,818.81, while the cost of service made up of the cost of power, operation, maintenance, administration and interest, was \$4,753,445.69 and the necessary sinking fund and reserves for renewals and contingencies amounted to \$772,727.52 making a total of \$5,526,173.21. After meeting all obligations in accordance with Section 23 of the Power Commission Act, the expenditures and reserves exceeded the revenue by \$106,354.40 or 1.96 per cent, which has already been billed to the municipalities and taken up in their operation and balance sheets, so that the Commission's balance sheet shows neither profit nor loss.

NIAGARA SYSTEM

During the first part of the year the Commission was unable to obtain sufficient power to meet the demands of the municipalities. Arrangements were made, however, early in the year for additional power from private companies at Niagara Falls, increasing the temporary power contracts to approximately 90,000 horsepower. This additional power and the fact that the power requirements of some of the Ontario Power Company's customers were much below normal during the greater part of the year, enabled the Commission to meet the demands of the municipalities without serious curtailment. Very successful operation by the Commission of the Ontario Power Company's plant at Niagara Falls, where all machines were operating at full load during peak load hours, also assisted greatly in meeting the demands of the municipalities. Notwithstanding the fact that the commercial depression continued throughout the year, a notable increase in the demands of the municipalities took place, caused largely by the increase in domestic load brought about by the more liberal use of light, and also by the increased use of large current-consuming domestic appliances.

The local systems of the municipalities nearly all show surpluses, after providing for all operating expenses and setting aside sufficient funds for depreciation. The exceptions to this condition are twelve of the smaller municipalities and three township systems, all of which will be placed in a satisfactory operating condition by a small adjustment in rates, which will scarcely be noticeable to the consumer. The fact that there has been a shortage of power during the last few years is largely the cause of these smaller municipalities showing a loss, as it was necessary during those years to discourage the taking on of additional customers. This situation will be largely corrected during the coming year.

SEVERN SYSTEM

The Severn system is supplied from the Big Chute development on the Severn river, with arrangements for auxiliary supply from the Eugenia system, the Wasdells system, and the Orillia plant at Ragged rapids. This system supplies seventeen municipalities, located south of Georgian bay and west of lake Simcoe. The success of the financial operation of the system during the year was greatly curtailed by the dropping off of large industrial loads in Collingwood, which increased the cost of power supplied to the other municipalities. With the return to normal commercial conditions, and with the addition of a large number of industrial loads in other municipalities, it is expected that during the coming year this system will again show a very satisfactory operating report.

EUGENIA SYSTEM

The Eugenia system is supplied with power from a generating plant located at Eugenia Falls, on the Beaver river, about twelve miles south of Georgian bay, and serves twenty-four municipalities in the surrounding district.

The conditions on this system for the current fiscal year show a great improvement over those of the preceding year, the total average load sold by the system being 1,343.4 horsepower in excess of the load of the previous year; an increase of approximately 40 per cent. The revenue collected for the fiscal year from the various municipalities and companies served was approximately \$84,000 in excess of that of the previous year. The load increased in all but four of the municipalities; in two of these, the average consumption was equal to that of the previous year, and in the remaining two, the decrease only amounted to about 10 horsepower in each case. Greatly increased demands occurred at Durham, Hanover and Neustadt; Durham and Hanover showing an increase of approximately 100 per cent., and Neustadt an increase of approximately 50 per cent. This increase in demand is all of a permanent character. Conditions have been still further improved since the close of the fiscal year, which points to the probability of much greater demands during the coming year. There is every indication that the municipalities served by the Eugenia system have recovered from the industrial depression experienced during the past few years.

During this year, this system was extended to supply Kincardine, Lucknow, Priceville, Ripley, Teeswater, and Wingham, and it is proposed to further extend the transmission lines to supply other municipalities at the western limit of the system. These additional loads have greatly assisted in reducing the cost of power to all of the municipalities on this system, and the extensions have made service possible to a large portion of this section of the Province. It is proposed to supply a number of rural power districts from these lines, and arrangements are being made at the present to serve a number of these consumers. These new loads and the increase in the loads of the other municipalities on the system have loaded the Eugenia generating plant almost to capacity, and the Commission has now under consideration the matter of obtaining an additional power supply for this system.

WASDELLS SYSTEM

This small system, with generating plant located at Wasdells Falls on the Severn river, supplies six villages and two industrial loads located east of lake Simcoe. The plant has been in operation since 1914.

The year's results of the operation of this system are most gratifying, and the showing made by the various municipalities, both locally and as a system, was better than for any previous year. Although no large industries were added during the year, every municipality, except one, established a greater demand than that of the preceding year. Also every municipality on the system, with the exception of one, shows a surplus after all items of expense and fixed charges, inclusive of interest and sinking fund, and renewals have been met. Arrangements have been completed for taking on two additional municipalities at the southern limit, which will greatly assist in lowering the cost of power to all the municipalities on the system, and the extension of these lines through a large agricultural district will reach a large number of rural customers, with whom arrangements are being made for service.

MUSKOKA SYSTEM

The Muskoka system, located in the southern part of the Muskoka district, and supplied from a development at High Falls, on the Muskoka river, serves the municipalities of Huntsville and Gravenhurst. This system operated very satisfactorily throughout the year, there being sufficient power to meet all requirements of the system. Both municipalities have a very gratifying financial showing for the year's operation.

ST. LAWRENCE SYSTEM

The St. Lawrence system serves the district immediately to the north of the St. Lawrence between Brockville and Cornwall and north thereof. The supply of power is purchased from the Cedar Rapids Transmission Company. The maximum load during the year, as purchased from the Cedar Rapids Company, amounted to over 5,000 horsepower, which is practically double the amount for the previous year.

During the year, five new municipalities were added to the system and five other municipalities voted for supply from the Commission, and it is expected that they will be connected up during the coming year. A number of rural power districts were also established and construction is now under way.

Radical changes in the older part of the system will be required so as to permit of transmitting power at higher voltage, and growth of load and the addition of municipalities has required a capital expenditure on the System, during the year, of approximately \$200,000. The Commission has concluded negotiations for delivery of a block of power to another large industry locating at Brockville, which will necessitate a further increase in capital expenditure.

RIDEAU SYSTEM

The Rideau system serves the district in the vicinity of Smith Falls, Perth and Carleton Place. Power is obtained from the new hydro-electric development at High Falls, on the Mississippi river, from the Rideau Power Company, at Merrickville, and from the Carleton Place plant. The load on the system increased approximately 25 per cent. The amount of power purchased from the Rideau Power Company was less than during the previous year, chiefly because there was available throughout the year an abundance of power from the High Falls generating plant.

One municipality was added to this system during the year, and construction work is nearly completed on lines to serve another. Both these municipalities were greatly in need of a reliable source of power.

Negotiations have been concluded between the Commission and a Company, for the delivery to the Company of a large block of power for industrial purposes. The addition of this load will greatly assist in utilizing the reserve generating capacity of the system. The contract with this industry is a short term agreement, and it is considered advantageous, as the power will be available for the municipalities when they are able to utilize the full capacity of the plant themselves.

The Commission will be able to deliver the anticipated requirements of the system during the next fiscal year from the High Falls plant without operating the Carleton Place plant. There is still an appreciable amount of reserve power on the system available to supply additional loads.

THUNDER BAY SYSTEM

The Thunder Bay system is located north of lake Superior, and for the past ten years power has been supplied to the city of Port Arthur by the Commission under a contract with the Kaministiquia Power Company. Owing to the fact that this Company did not have sufficient capacity to supply the future power requirements of the district, it was necessary for the Commission to construct a development on the Nipigon river, approximately 60 miles from the city of Port Arthur. During the year power was delivered to the city of Port Arthur for the first time from this Development.

Owing to the effect of the commercial depression on the pulp and paper industries, which are the largest basic industries in this district, the demand on the system was not as great as was anticipated. However, with the resumption of normal commercial conditions, the power loads on this system will increase very rapidly, as large blocks of power are required for the development of the pulp wood concessions, which have been granted by the Provincial Government, and it is expected that before the end of the coming year it will be necessary to install additional capacity in the Nipigon plant to meet the demand for these industries.

CENTRAL ONTARIO SYSTEM

The Central Ontario system was purchased by the Government of the Province of Ontario on March 1st, 1916, and is still owned by the Province. The Commission, by Order-in-Council of May 5th, 1916, was appointed Trustee to operate the system on behalf of the Government, and commenced its duties in this respect on June 1st, 1916. The system has been operated by the Commission with full regard to its duties as Trustee and to the public who are the users of the service supplied.

From time to time, as demand increased, the generating and transmission capacity of the system has been increased. Many improvements have been made to the various constituent properties of the system so as to improve the efficiency and lower the cost of operation.

Since operation was begun by the Commission, nine municipalities in the district entered into contracts with the Commission and now receive a supply of power on a cost basis, each municipality distributing power within its own borders. Three of these municipalities—Havelock, Marmora and Norwood—were first furnished with service in the early part of the past year.

The load on the system increased slightly over that of the preceding year, in spite of the industrial depression which curtailed considerably the production of many factories.

The stream flow of the Trent river, on which all of the generating stations on the Central Ontario system are located, was considerably larger at the low-

stage period of 1921 than at the corresponding period of 1920. This made it unnecessary to speed up the construction of the new Ranney Falls generating station, and it was decided to carry the construction to completion at a normal rate of progress. The scheduled date of completion is now June 1st, 1922, and the avoidance of undue haste is resulting in very economical construction. The completion of the plant will add 10,000 horsepower to the capacity of the system.

The financial results of the year's operations were satisfactory, particularly in view of the industrial inactivity. The revenue was sufficient to meet all costs of operation, all interest charges, and to provide substantial reserves for renewals, contingencies and sinking fund on that portion of the investment for which sinking fund provision is required. The total accumulated reserve now amounts to \$912,114.52, or nearly 8 per cent. of the total capital investment.

The Campbellford Pulp Mill was operated until March 15th, 1921, and was then closed down as all contracts had been filled, and the market was in such a condition as to make operation impossible except at a loss. The mill remained closed until the end of the year as market conditions remained unsatisfactory.

Respectfully submitted,

ADAM BECK

Chairman

TORONTO, ONT., March 30th, 1922

COLONEL SIR ADAM BECK, KT., LL.D.,

*Chairman, Hydro-Electric Power Commission of Ontario,
Toronto, Ont.*

SIR,—I have the honour to transmit herewith the Fourteenth Annual Report of the Hydro-Electric Power Commission of Ontario for the fiscal year ending October 31st, 1921.

I have the honour to be,

Sir,

Your obedient servant,

W. W. POPE

Secretary

HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO

COLONEL SIR ADAM BECK, Kt., LL.D., Chairman.

LT.-COL. HON. D. CARMICHAEL, D.S.O., M.C.

FRED R. MILLER, Esq.

W. W. POPE, Secretary.

F. A. GABY, Chief Engineer.

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FOURTEENTH ANNUAL REPORT

OF THE

Hydro-Electric Power Commission of Ontario

SECTION I

LEGAL PROCEEDINGS

HIS Majesty, by and with the advice and consent of the Legislative Assembly of the Province of Ontario, in 1921, passed five special Acts relating to the work of the Hydro-Electric Power Commission of Ontario. These Acts are reproduced in full as an Appendix to this Report. The short titles of the Acts are as follows:

The Power Commission Act, 1921, Chapter 20.

The Rural Hydro-Electric Distribution Act, 1921, Chapter 21.

The Guelph Railway Act, 1921, Chapter 22.

The Toronto Power and Railway Purchase Act, 1921, Chapter 23.

The Toronto Radial Railway Act, 1921, Chapter 24.

Prior to 1920, By-laws numbers, also copies of Agreements, in connection with the supplying of electrical power and energy by the Hydro-Electric Power Commission of Ontario, to various municipalities, companies and other parties, were incorporated in provincial statutes and were reproduced in the legal section of the Annual Reports of the Commission. •

In 1920, the Power Commission Act (R.S.O., 1914, Chap. 39) was amended by the Power Commission Act, 1920, Chapter 18. Under section three of the said Act of 1920, two new sections, numbers 21a and 21b, were added to the original Act, and are as follows:

- 21a. Notwithstanding anything contained in section 21 it shall not be necessary to obtain the approval of the Lieutenant-Governor in Council to any contract for a supply of electrical power or energy by the Commission to any person from works which the Commission has acquired or constructed and is operating for the distribution of electrical power or energy;
- 21b. Where the Commission has heretofore entered or shall hereafter enter into an agreement for the supplying of electrical power or energy or

for any other work or service to be done or supplied by or to the Commission, and such agreement has been or shall hereafter be submitted to and approved by the Lieutenant-Governor in Council such agreement shall thereupon be confirmed and be legal, valid and binding upon the parties thereto and shall not be open to question upon any grounds whatsoever, anything in this Act or in any other Act to the contrary notwithstanding.

In 1921, the By-laws were confirmed in the Power Commission Act as in previous years. The Agreements, however, under the above mentioned Amendment, are now confirmed by Order-in-Council, and therefore do not appear in the Statutes of 1921.

An Order in Council is now pending, confirming the Agreements for 1920 and 1921 which the Commission has entered into with various municipalities and other parties for the supply of electrical power and energy, or for other work or services, to be supplied by or to the Commission. These said Agreements are as follows:

Town of Thorold.
Town of Merritton.
Village of Newbury.
Village of Wardsville.

Village of Port Dover.
Village of Queenston.
Village of Thedford.
Village of Alvinston.

Town of Uxbridge.
Town of Alexandria.
Town of Kincardine.
Town of Wingham.
Village of Wroxeter
Village of Port Perry.
Village of Norwood.
Village of Lakefield.
Village of Teeswater.
Village of Lucknow.
Village of Lancaster.
Village of Lanark.
Village of Maxville.
Police Village of Martintown.
Police Village of Apple Hill.
Police Village of Kirkfield.
Police Village of Priceville.
Township of Winchester.
Township of Elizabethtown.
Village of Kemptville.
Township of Beverley.
Township of Yarmouth.
Township of Raleigh.
Township of North Dorchester.

Township of Westminster.
Township of Charlottenburg.
Township of West Nissouri.
Township of South Dorchester.
Township of Brantford.
Township of Nottawasaga.
Township of Howard.
Township of Thorold.
Township of Orford.
Township of Nepean.
Township of Edwardsburg.
Township of Augusta.
Township of North Oxford.
Township of Willoughby.
Township of East Nissouri.
Township of Crowland.
Township of Harwich.
Township of Artemesia.
Township of Bertie.
Township of Stamford.
Township of Kinloss.
Township of Chatham.
Township of Sandwich East.

The Ontario Rock Company, Limited.

His Majesty the King represented by the Minister of Militia and Defence.

Arthur Pequegnat Clock Company.

G. W. MacFarlane Engineering, Limited.

Nipigon Fibre and Paper Mills, Limited.

Brunner-Mond Canada, Limited.

County of Welland.

The Standard Steel Construction Company, Limited.

Brantford Sand and Gravel Company, Limited.

The Dominion Sugar Company, Limited.

The Ontario Power Company of Niagara Falls.

The Water & Light Commission of the Town of Campbellford.

The Municipal Corporation of the Town of Orillia, represented by the Orillia Water, Light & Power Commission.

The Water & Light Commission of the Town of Preston.

RIGHT-OF-WAY AND LANDS

With the growth and expansion of the work of the Commission as a whole, the work of the Right-of-Way and Land Department has also increased. During the year 1921, the work of the Department covered territory extending from Windsor on the west to Alexandria on the east, also areas in the vicinity of Port Arthur and Nipigon.

Rural Power Lines

Under an Act passed at the last Session of the Ontario Legislature, granting financial assistance in the matter of constructing Rural Power Lines, agreements have been made and construction has actually been started in a number of Rural Municipalities, including the following Townships:

Nepean, West Flamboro', Saltfleet, Ancaster, Niagara, Howard, Beverley, North and South Dorchester, Yarmouth, Nottawasaga.

Lines on Provincial Highways

Construction work carried on by the Department of Public Highways has necessitated in many cases changes in the locations of power line poles which had been erected on these highways prior to their assumption by the Highways Department. A scheme of co-operation has been arranged whereby, upon the request of the Provincial Highways Department, the Commission's Right-of-Way Department takes care of this work.

The Provincial Highways Department has appointed a Forester whose duty it is to superintend the removal, trimming and planting of trees on the Provincial Highways. Where it is found necessary to remove or trim trees on account of the erection of Power Lines on these Highways, the work is now done under instructions of this official. This arrangement has proved satisfactory to all parties.

Toronto and Niagara Power Company

The purchase of this Company by the Commission has involved the investigation of nearly two thousand titles in the Registry Offices of the different counties in which the right-of-way and other lands of that Company are situated; namely, York, Peel, Halton, Wentworth, Lincoln, Welland, Haldimand, Brant and the City of Toronto. This work rendered it necessary to employ some temporary help in this Department for a part of the year.

Queenston-Chippawa Development

The building of a railway to connect the Michigan Central Railroad near Queenston with the new Power House at that place, and the consequent change in location of some of the tracks of the International Railway, necessitated the purchase and exchange of several parcels of land.

Short term Easements were secured from a number of owners for the right to construct temporary power lines on their property in connection with the work on the Chippawa Canal.

Guelph Street Railway

The purchase of the Guelph Street Railway has been completed, the necessary debentures issued, the assets of the Company taken over, and the Railway is now operated by this Commission for the City of Guelph.

Essex County Railway Lines

To extend and improve the lines of the Sandwich, Windsor and Amherstburg Railway and the Windsor and Tecumseh Railway, an additional issue of Bonds to the amount of \$900,000 was found necessary. The consent of the different municipalities interested was obtained and by-laws providing for the debenture issue were duly passed after which the debentures were duly deposited with the Commission. Several changes in the right-of-way of the lines were made and the required transfers of land were obtained.

Nipigon Lines.

A number of sites on which it is proposed to erect Operators' Residences at different points on the line have been purchased. Several claims for pole rights and damage claims have been settled and the right-of-way for this line for some distance east of Port Arthur has been purchased.

Negotiations have also been carried on with the Dominion and Provincial Governments in connection with the water power development at Cameron Falls.

St. Lawrence Development

Estimates of the value of lands to be submerged or otherwise used in connection with the proposed St. Lawrence Development have been prepared.

Queenston-Hamilton High Tension Line

The work of securing easements for tower rights for the Queenston-Hamilton High Tension Line was taken up actively during the latter part of

the year, and approximately seventy-five per cent of the required tower rights have been secured.

The purchase of a station site at East Hamilton has also been completed.

Low Tension Lines

Apart from the new Rural Power Lines, less low tension work was carried on during 1921 than in any year for some time past. The following are the principal lines constructed during the year.

1. Simcoe to Port Dover.
2. Line to the Dominion Sugar Company's Factory at Wallaceburg.
3. Line to the new Stamford Township Station.
4. Merrickville to Kemptville.
5. Lanark to Balderson.
6. Welland to Rock Crusher Station.
7. Line to Cornwall Pulp Company Station.

A number of settlements for outstanding pole and tree rights on the St. Lawrence System were also completed.

Miscellaneous

A few outstanding claims on the High Tension Line from Dundas to Toronto (Sec. BB) were cleaned up during the year. This line is now complete.

A number of parcels of land in the Town of Essex, Dutton, Peterboro', and other places, which were no longer required by the Commission have been sold and the necessary conveyances passed. Several parcels of land in the Township of Stamford not in immediate use have been leased for short terms.

Many claims for damages and other demands have been investigated and satisfactory adjustments have been made.

SECTION II

TRANSMISSION SYSTEMS

The various extensions of the St. Lawrence System in Stormont County and of the Eugenia System in Bruce County, which were nearing completion at the beginning of the year, have been completed and placed in operation.

Considerable attention has been given during the year to the replacing of some of the smaller conductors on our low-tension lines where the capacity was insufficient for the increased load and where the conductors were not strong enough to withstand the various mechanical loads to which they were subjected from time to time.

During the year the extension of the 110,000 volt lines of the Niagara System was undertaken so as to provide for the distribution of the power about to be delivered from the new Queenston Generating Station. The first to be built was a tie line from that station to the Niagara Transformer Station at Niagara Falls. The conductors are steel-reinforced aluminum, having an aluminum cross-section of 500,000 c.m. and are supported by steel towers and suspension insulators. They are designed to carry from 50,000 to 75,000 h.p. over each circuit, and are installed largely to provide for the temporary interchange of power until the 110,000 volt system radiating from the new Queenston Generating Station is established. This line, which is about five and a half miles long, is carried largely on the property of the Hydro-Electric Power Commission which was secured for the building of the Chippawa Canal and, by agreement, on the right-of-way owned by the Ontario Power Company through the municipality of Niagara Falls.

Disconnecting switches have been placed in this line, which is tapped into the 110,000 volt feeders between Niagara Falls Station and Dundas Station in such a way that power can be interchanged between Queenston and the other generating plants at Niagara Falls.

Some idea of the congestion caused by the utilization on an extensive scale of a natural power, such as Niagara Falls, with its complement of local industry, can be gathered from the fact that it was necessary to string seven wires for this double-circuit line over forty-four wire crossings, varying from communication circuits to 60,000 volt power lines, each of which was continued in service during the construction work. Mention should be made of the employees who carried out this rather hazardous work without interruption to the various circuits and without accident.

During the year, work was started on a trunk line from Queenston to a point on the existing 110,000 volt transmission lines north of the town of Burlington. This line passes through the highly-developed agricultural district of the Niagara Peninsula, generally paralleling the Grand Trunk Railway through the Peninsula and across Hamilton Beach to the village of Burlington, thence it strikes across country to an intersection with the Dundas-Toronto lines. A connection is being made to the proposed Hamilton Station, which is located on the boundary of the townships of Barton and Saltfleet, a short distance south of Burlington Bay.

On account of the increased load in the different municipalities, it was found advisable during the year to add conductors to the existing structures operating at 110,000 volts, where double-circuit towers had been provided for this purpose.

A circuit of steel-reinforced aluminum conductors, from Dundas Station to Kitchener, was installed during the year, and one of the circuits, between Dundas and York, for which structures were provided some time ago, is being erected. This latter conductor is 500,000 c.m. steel-reinforced aluminum. Upon completion of this circuit, all of the tower space provided for future conductors in steel tower construction to date will be used, except that for the circuit between Kitchener and Stratford and a circuit between Dundas and York.

The Nipigon System, which was reported upon last year, was put in service at 60,000 volts in the early part of the year and at 110,000 volts during the summer.

Various extensions have been made to the low-tension systems, among which might be mentioned the following lines:—From Merrickville to Kemptville, to operate at 26,000 volts; service to the Galt, Preston, and Hespeler Electric Railway, at Brantford, at 26,400 volts, and Preston at 13,200 volts; and service to Doon and Freeport revised and extended so as to provide for 2,200 volts transmission.

The extension to the Eugenia System from Hanover west to Wingham, Teeswater, Kincardine, Ripley, and Lucknow was placed in service in December, 1920. A circuit of 3/0 steel-reinforced aluminum was added to the present line from Durham to Hanover to provide additional capacity at this latter point.

On the Severn System the work of increasing the conductor size was started on one line on the section from the Big Chute Generating Station to Waubauskene Station.

In the following pages are given tables relating to the different lines and systems built and operated by the Commission up to October 31, 1921. The tabular data are classified to show voltages, sizes of wire used, mileage of lines and number of poles, total weights of cable, number of circuits, gauge, length and weight of conductors including ground cable and telephone wire, under construction and as revised to October 31, 1921. A separate report is given of the lines formerly the property of the Ontario Power Company, but now owned and operated by the Commission. A complete tabulation of lines divided into the various systems is also given. These tables contain construction data on the various sections of line of each system, together with the date of placing each section into service.

TRANSMISSION LINE RECORDS—TOTAL MILEAGE

The total mileage of lines built and acquired by the Commission up to October 31st, 1921, for the various systems is indicated in the following table:

System	Miles
Ontario Power Company.. . . .	88.67
Niagara System—110,000 volts, steel tower lines	466.92
Niagara System—46,000 volts, and less, steel and wood supports	1,007.38
Essex County System.....	57.40
Severn System.....	178.13
Eugenia System.. . . .	295.71
Wasdells System	78.74

Muskoka System	26.32
St. Lawrence System	146.71
Rideau System.. . . .	81.62
Thunder Bay System	84.72
Central Ontario System.. . . .	464.57
Nipissing System	24.70

Total 3,001.59

110,000 VOLT STEEL TOWER TRANSMISSION LINES

Lines Completed and Under Construction to October 31st, 1921

Completed, 466.92 miles. Under construction, 54.88 miles. Total, 521.80 miles.

Total Mileage of 110,000 Volt Lines and Number of Towers

	To Oct. 31, 1920	Oct. 31, 1920 to Oct. 31, 1921	Totals to Oct. 31, 1921
Total mileage completed.	466.92	.....	466.92
Total mileage under construction. . . . .	.....	54.88	54.88
Total mileage of single circuit lines completed.	140.34	.....	140.34
Total mileage of double circuit lines completed.	326.58	.....	326.58
Total mileage of double circuit lines under construction.. . . .	.....	54.88	54.88
Number of towers erected.	4649	.....	4649
Number of towers under construction. . . . .	.....	398	398

Total mileage of lines double-circuited during Oct. 31, 1920, to Oct. 31, 1921—8.14 miles.

Total mileage of lines being double-circuited Oct. 31, 1921—35.99 miles.

Total mileage of lines completed to Oct. 31, 1921, includes 34.00 miles of line on which towers only are erected.

110,000 VOLT STEEL TOWER TRANSMISSION LINES

Total Weights and Mileages of Conductors

Cable	WIRE MILES.			WEIGHT IN POUNDS		
	Completed to Oct. 31, 1920	Completed Oct. 31, 1920 to Oct. 31, 1921	Under Construc- tion Oct. 31, 1921	Completed to Oct. 31, 1920	Completed Oct. 31, 1920 to Oct. 31, 1921	Under Construc- tion Oct. 31, 1921
S.R.A.C.	1357.26	.....	329.28	3,485,006	.....	1,324,182
Copper..	945.66	.....	.....	2,822,089	.....	.....
Total	2302.92	.....	329.28	6,307,095	.....	1,324,182

110,000 VOLT STEEL TOWER TRANSMISSION LINES

Gauge, Length and Weight of Conductors

Brown & Sharpe Gauge	Wire Miles			Weight in Pounds			Miles— Single Circuit Lines.			Miles— Double Circuit Lines			Total Miles Single and Double Circuit Lines completed Oct. 31, 1921
	Completed to Oct. 31, 1920	Com- pleted Oct. 31, 1920 to Oct. 31, 1921	Under construc- tion Oct. 31, 1921	Completed to Oct. 31, 1920	Com- pleted Oct. 31, 1920 to Oct. 31, 1921	Under construc- tion Oct. 31, 1921	Com- pleted to Oct. 31, 1920	Com- pleted Oct. 31, 1920 to Oct. 31, 1921	Under construc- tion Oct. 31, 1921				
605,000cm.,S.R.A.C.	.....	.....	285.00	.....	.....	1,173,630	.....	.....	.....	.....	47.50	.....
500,000 c.m., "	.....	.....	44.28	.....	.....	150,552	.....	.....	.....	.....	7.38	.....
336,400 c.m., "	575.64	.....	.....	1,606,035	.....	.....	25.26	.....	83.31	.....	.....	108.57
312,000 c.m., "	585.66	.....	.....	1,522,716	.....	.....	25.09	.....	85.66	.....	.....	110.75
266,800 c.m., "	195.96	.....	.....	356,255	.....	.....	55.99	.....	.....	.....	.....	55.99
211,600 c.m., Copper	328.80	.....	.....	1,134,360	.....	.....	.....	.....	54.80	.....	.....	54.80
167,800 c.m., "	616.86	.....	.....	1,687,729	.....	.....	.....	.....	102.81	.....	.....	102.81
Total.....	2,302.92	.....	329.28	6,307,095	.....	1,324,182	106.34	.....	326.58	.....	54.88	432.92

Miles of single circuit lines total 106.34 miles—does not include 34.00 miles of line, towers only erected.

DESCRIPTION OF LINES

High Tension 110,000

New Section Number	Old Section Number	From	To	Aver. Spans feet	Miles	No. of Towers
N1 x 2	A	Niagara Trans. Sta.	Dundas Trans. Sta.	550	51.43	570
N1 x 2	AA	" " "	" " "	630	50.00	451
N2 x 13	Pt. B1 x B2	Dundas " "	Cooksville " "	550	27.20	295
N13 x 16	Pt. B1 x B3	Cooksville " "	York " "	550	6.73	74
N16 x 3	Pt. B1 x B4	York " "	Toronto " "	550	5.10	62
N2 x 16	BB	Dundas " "	York " "	630	34.00	300
N2 x 12	C	Dundas " "	Brant " "	550	22.65	251
N12 x 10	D	Brant " "	Woodstock " "	550	21.83	231
N10 x 4	E	Woodstock " "	London " "	550	25.45	278
N2 x 5	F	Dundas " "	Guelph " "	550	25.26	270
N5 x 6	G-1	Guelph " "	Preston " "	550	10.73	115
N6 x 7	G-2	Preston " "	Kitchener " "	550	8.14	91
N7 x 8	H	Kitchener " "	Stratford " "	550	25.09	267
N8 x 9	I	Stratford " "	St. Marys " "	550	13.53	147
N9 x 4	J	St. Marys " "	London " "	550	23.59	250
N4 x 11	K	London " "	St. Thomas " "	550	13.38	141
N11 x 14	L	St. Thomas " "	Kent " "	660	58.04	486
N14 x 15	M	Kent " "	Essex " "	660	44.77	370
Total Mileage.....					466.92	

NOTE.—Section "A" has fifty miles of 312,000 c.m. S.R. Alum. and one mile of

Section "B" has 35.3 miles of 312,000 c.m. S.R. Alum. and 3.80 miles of

Section "H" has 23.90 miles of 312,000 c.m. S.R. Alum. and 1.19 miles of

Lines Under Construction.

N50 x 51	.....	Queenston Gen. Sta.	Niagara Trans. Sta.	550	5.38	55
N50 x 53	.....	" " "	Saltfleet Jct. N53	880	39.50	233
N53 x 17	.....	Saltfleet Jct. N53	Hamilton Trans. Sta.	880	2.00	12
N53 x 52	.....	Saltfleet Jct. N53	Freeman's Jct.	880	8.00	79
				&450		[T.P. CO. [19HEPC

Lines Double Circuited.

N2 x 5	F	Dundas Trans. Sta.	Guelph Trans. Sta.	Dec. 6, 1921.
N5 x 6	G1	Guelph " "	Preston " "	Nov. 17, 1921.
N6 x 7	G2	Preston " "	Kitchener " "	Sept. 12, 1921.

—NIAGARA SYSTEM

Volt, 25 Cycles

October 31, 1921

No. of Circuits	Power Cable	Ground Cable	In Operation	Size of Original Conductors	Re-strung Date
2	312,000 c.m. SRAC.	5/16" Steel	Oct., 1910	4/0 Alum.	Mar., 1915
2	211,600 c.m. Copper	" "	Feb., 1915	4/0 "	Oct., 1918
2	312,000 c.m. SRAC	" "	Mar., 1911	3/0 "	Oct., 1917
2	312,000 c.m. "	" "	Mar., 1911	3/0 "	Oct., 1917
2	312,000 c.m. "	" "	Mar., 1911	3/0 "	Oct., 1917
1	500,000 c.m. "	" "	.....	.....	.....
2	336,400 c.m. "	" "	Nov., 1910	3/0 "	Oct., 1914
2	336,400 c.m. "	" "	Nov., 1910	3/0 "	Oct., 1914
2	336,400 c.m. "	" "	Dec., 1910	3/0 "	Oct., 1914
2	336,400 c.m. "	" "	Oct., 1910	3/0 "	June, 1915
2	266,800 c.m. "	" "	Oct., 1910	3/0 "	June, 1915
2	266,800 c.m. "	" "	Oct., 1910	3/0 "	June, 1915
1	312,000 c.m. "	" "	Dec., 1910	3/0 "	Dec., 1919
1	266,800 c.m. "	" "	Dec., 1910	3/0 "	June, 1915
1	266,800 c.m. "	" "	Dec., 1910	3/0 "	June, 1915
2	336,400 c.m. "	" "	Dec., 1910	3/0 "	Oct., 1913
2	167,800 c.m. Copper	" "	Aug., 1914	.....	.....
2	167,800 c.m. "	" "	Aug., 1914	.....	.....

211,600 c.m. copper.

211,600 c.m. copper from limits to Toronto Sub.

266,800 c.m. S.R. Alum.

2	500,000 c.m. SRAC.	5/16" Steel	.....	.....	.....
2	605,000 c.m. "	" "	.....	.....	.....
2	500,000 c.m. "	" "	.....	.....	.....
2	605,000 c.m. "	" "	.....	.....	.....
2	190,000 c.m. Copper	" "	.....	.....	.....

DESCRIPTION OF LINES—NIAGARA SYSTEM
HIGH-TENSION TELEPHONE AND RELAY LINES

Section No.	From	To	Length of pole Span Avg. ft.	Avg. Span feet	Miles	No. of Poles	No. of Circuits	B. & S. & W. G. Gauge Circuits	Remarks
A	Niagara	Trans. Sta.	30	132	54.16	2204	4	{ 2-No. 9 B. & S. Copper 2-No. 10 " " "	No. 12 B. & S. Copper, old. Relay not in use.
AA	"	"	30	132	50.00	1405	1	No. 9 B. & S. " "	
B	Dundas	"	30	132	35.87	1519	3	{ 2-No. 9 B. & S. " " 1-No. 10 " " "	
BB	"	Trans. Sta.	30	132	.....	....	..	{ 1-No. 9 B. & S. Copper 1-No. 10 " " "	Towers only erected
C	"	"	30	132	22.90	957	2	" " "	
D	Brant	"	30	132	21.53	888	2	{ 1-No. 9 B. & S. Copper 1-No. 10 " " "	
E	Woodstock	"	30	132	26.03	1074	2	{ 1-No. 10 B. & S. Copper 1-No. 11 " " "	
F	Dundas	"	30	132	26.12	1093	2	{ 1-No. 10 B. & S. Copper 1-No. 11 " " "	
G-1	Guelph	"	30	132	12.78	535	2	{ 1-No. 10 B. & S. Copper 1-No. 12 " " "	
G-2	Preston	"	30	132	9.09	400	2	{ 1-No. 10 B. & S. Copper 1-No. 12 " " "	
H	Kitchener	"	30	132	28.75	1164	2	{ 1-No. 10 B. & S. Copper 1-No. 11 " " "	
I	Stratford	"	30	132	15.28	634	2	{ 1-No. 10 B. & S. Copper 1-No. 12 " " "	
J	St. Mary's	"	30	132	27.81	1204	2	{ 1-No. 10 B. & S. Copper 1-No. 11 " " "	
K	London	"	30	132	16.09	696	2	{ 1-No. 10 B. & S. Copper 1-No. 12 " " "	
L	St. Thomas	"	30	132	58.04	2370	2	No. 9 B. & S. Copper.	
M	Kent	"	30	132	44.77	1829	2	No. 9 B. & S. Copper.	
N50x51	Queenston Gen. Sta.	"	25	150	6.16	225	2	No. 9 B. & S. Copper.	
		Total	Mileage	.....	455.38			No. 9 B. & S. H. D. Copper.	

TRANSMISSION LINES (2,200 to 110,000 Volts)

Up to October 31st, 1921, the following lines, of voltages varying from 2,200 to 110,000 volts, were completed and placed in service. The mileage of these lines is distributed among the various systems as follows :

SYSTEM.	MILES
Niagara System.....	1,007.38
Severn System.....	178.13
Eugenia System.....	295.71
Wasdells System.....	78.74
Muskoka System.....	26.32
St. Lawrence System.....	146.71
Rideau System.....	81.62
Thunder Bay System.....	84.72
Central Ontario System.....	142.24
	<hr/> 2,041.57

This total does not include the 110,000 volt steel-tower lines of the Niagara System, or lines acquired by the Commission. On October 31st, 1921, there were under construction 7.81 miles of transmission lines of voltages varying from 4,000 to 26,400 volts. The mileage of these lines is distributed among the various systems as follows :

Niagara System..... 7.81 miles.

LINEs COMPLETED AND UNDER CONSTRUCTION

October 31, 1920—October 31, 1921

Voltages	Miles Completed	Miles Under Construction	Total Miles
110,000	48.05	.....	48.05
44,000	31.22	.....	31.22
40,000	18.09	.....	18.09
26,400	12.37	.81	13.18
12,000	.69	.....	.69
4,000	39.24	7.00	46.24
2,300	12.55	.....	12.55
Total.....	162.21	7.81	170.02

**MILES OF TRANSMISSION LINES COMPLETED AND UNDER CONSTRUCTION
BY THE LINE CONSTRUCTION DEPARTMENT FOR THE
VARIOUS SYSTEMS:**

October 31, 1920, to October 31, 1921

SYSTEM.	MILES
Niagara System.....	19.66
Severn System.....	.....
Eugenia System.....	28.99
Wasdells System.....	.....
Muskoka System.....	.....
St. Lawrence System.....	49.60
Rideau System.....	17.10
Thunder Bay System.....	48.05
Central Ontario System.....	6.62
Total.....	<hr/> 170.02
Span Miles—single circuit.....	168.97
Span Miles—double circuit.....	1.05
Total.....	<hr/> 170.02

Power Conductors :

	MILES
Steel Reinforced Aluminum.....	148.81
Aluminum.....	.81
Copper.....	2.07
Steel.....	18.33
Total.....	<hr/> 170.02

Ground Cable :	MILES
Steel.....	148.54
Iron.....	.....
Total.....	148.54
Telephone Wire :	MILES
3 x 13 Steel.....	48.05
3 x 12 Steel.....	46.86
No. 6 S.-R. Aluminum.....	13.30
No. 9 Galv. Iron.....	7.14
No. 10 C.C. Steel.....	1.05
Total.....	116.40
Aluminum :	MILES
1/0 Steel Reinforced.....	11.64
4/0 " ".....	48.05
6/0 " ".....	1.66
2 " ".....	84.23
6 " ".....	3.23
3/0 Aluminum.....	.81
Total.....	149.62
Copper.....	MILES 2.07
Total.....	2.07
Steel Power Cable :	MILES
5/16" Galv. Steel.....	6.20
3 x 12 Galv. Steel.....	12.13
Total.....	18.33
Ground Cable Steel :	MILES
1/4" Galv. Steel.....	22.73
9/32" " ".....	79.27
5/16" " ".....	23.82
3 x 13 " ".....	15.85
4 x 12 " ".....	6.87
Total.....	148.54

Average Spans for poles :

125 ft., 132 ft., 150 ft., 160 ft., 250 ft., 325 ft., and 330 ft.

TOTAL MILEAGE OF LINES AND NUMBER OF POLES

	To Oct. 31, 1920	Oct. 31, 1920 to Oct. 31, 1921	Totals to Oct. 31, 1921
Total Mileage low tension lines, completed.....	1,879.36	162.21	2,041.57
Total Mileage low tension lines under construction...	99.30	7.81	7.81
Total Mileage single circuit lines completed.....	1,398.12	161.97	1,560.09
Total Mileage double circuit lines completed.....	455.03	.24	455.27
Total Mileage three circuit lines completed.....	5.74	.....	5.74
Total Mileage four circuit lines completed.....	20.47	.....	20.47
Total Mileage single circuit, telephone lines completed	1,451.70	115.79	1,567.49
Total Mileage double circuit telephone lines completed	68.20	.....	68.20
Total Mileage three circuit telephone lines completed.	.76	.....	.76
Total Mileage telephone lines under construction....	94.60	.81	.81
Number of poles erected.....	72,713	4,019	76,732
Number of towers erected.....	444	.....	444
Number of poles under construction.....	.....	242	242

TRANSMISSION AND TELEPHONE LINES
Total Weights and Mileages of Cable and Wires

Cable and Wire.	Wire Miles.			Weight in Pounds.		
	Completed to Oct. 31, 1920	Oct. 31, 1920 to Oct. 31, 1921	Under Construction Oct. 31, 1921	Completed to Oct. 31, 1920	Completed to Oct. 31, 1921	Under Construction Oct. 31, 1921
Aluminum.....	Pow. 3,626.22	.....	Pow. 4.86	Pow. 2,614,912	.....	Pow. 4,053
Steel-Reinforced Aluminum.....	Pow. 1,722.75	Pow. 426.15	.....	Pow. 1,307,596	Pow. 380,206	.....
	Tel. 319.17	Tel. 26.60	Pow. 21.00	Tel. 61,281	Tel. 5,107	Pow. 10,248
Copper Wire.....	Pow. 1,227.24	Pow. 6.21	.....	Pow. 1,747,565	Pow. 2,658	.....
	Tel. 137.16	.....	.....	Tel. 22,741	.....	.....
Copper Clad Steel.....	Tel. 1,235.80	Tel.	Tel. 1.62	Tel. 208,802	.....	Tel. 249
Galv. Iron Wire.....	Pow. 190.14	Tel. 14.28	.....	Pow. 108,950	Tel. 4,355	.....
	Tel. 1,475.68	.....	.....	Tel. 439,045	.....	.....
Galv. Steel Cable.....	Pow. 455.49	Pow. 54.99	.....	Pow. 477,693	Pow. 38,101	.....
	Tel. 153.16	Tel. 190.22	.....	Tel. 57,435	Tel. 82,578	.....
Total.....	10,542.81	718.45	27.48	7,046,020	513,005	14,550

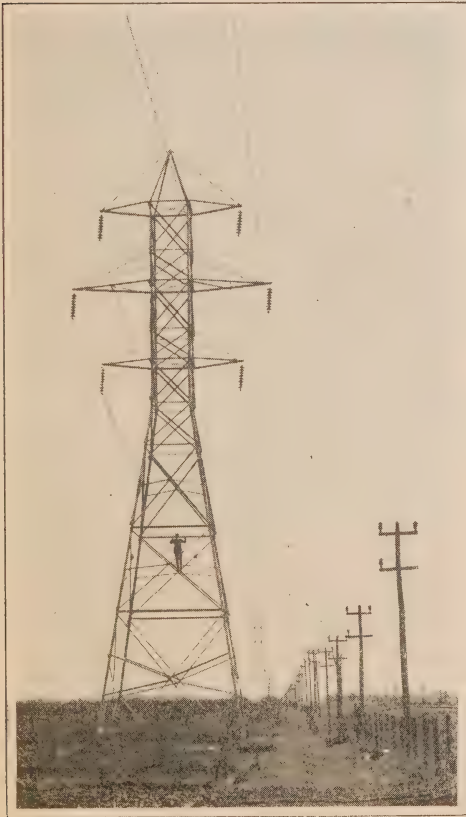
THE MILEAGE OF LINES TABULATED ACCORDING TO VOLTAGE AND NUMBER OF CIRCUITS

Voltage.	Single Circuit		Totals		Double Circuit		Totals		Three Circuit		Totals		Four Circuit		Totals		1-2-3-4 Circuit		Totals	
	Completed to Oct. 31, 1920	Completed Oct. 31, 1921	Under construction Oct. 31, 1921	Under construction Oct. 31, 1921	Completed to Oct. 31, 1920	Completed Oct. 31, 1921	Under construction Oct. 31, 1921	Under construction Oct. 31, 1921	Completed to Oct. 31, 1920	Completed Oct. 31, 1921	Under construction Oct. 31, 1921	Under construction Oct. 31, 1921	Completed to Oct. 31, 1920	Completed Oct. 31, 1921	Under construction Oct. 31, 1921	Under construction Oct. 31, 1921	Completed to Oct. 31, 1920	Completed Oct. 31, 1921	Under construction Oct. 31, 1921	Under construction Oct. 31, 1921
110,000	27.56	48.05	...	...	...	...	...	...	...	...	...	...	...	...	...	...	27.56	48.05	...	75.61
46,000	205.63	49.31	...	...	5.25	...	...	...	...	...	...	...	15.53	...	...	...	226.41	49.31	...	275.72
44,000																				
40,000																				
26,400	334.26	12.13	...	...	146.44	.24	.81	...	1.48	...	...	...	1.10	...	...	...	483.28	12.37	.81	495.65
22,000	243.89	...	...	...	188.80	...	...	.76	...	...	...	...	...	...	...	...	433.45	...	...	433.45
13,200	281.51	...	...	...	109.86	...	...	3.50	...	...	...	...	3.84	...	...	...	398.71	...	...	398.71
12,000	11.53	.69	...	...	4.68	...	...	...	...	...	...	...	...	...	...	...	16.21	.69	...	16.90
6,600	16.28	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	16.28	...	...	16.28
4,000	254.47	39.24	7.00	...	...	...	...	...	...	...	...	...	...	...	...	...	254.47	39.24	7.00	293.71
2,300	10.23	12.55	...	...	...	...	...	...	...	...	...	...	...	...	...	...	10.23	12.55	...	22.78
2,200	12.76	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	12.76	...	...	12.76
Total....	1,398.12	161.97	7.00	...	455.03	.24	.81	...	5.74	...	...	...	20.47	...	...	...	1,879.36	162.21	7.81	2,041.57

NOTE.—This sheet is based on span miles.



Terminal Tower at Queenston, 1920 type, feeding Queenston: Niagara Tie Line



Standard Suspension Tower, 1920 type, with one-degree angle: Queenston-Burlington Line



Combined Assembly and Erection of 1920-type Towers: Queenston-Burlington Line

GAUGE, LENGTH AND
TRANSMISSION LINES.

Brown and Sharpe Gauge	Wire Miles			Weight Pounds			Miles Single Circuit Lines		
	Completed to Oct. 31, 1920	Completed Oct. 31, 1920 to Oct. 31, 1921	Under con- struction Oct. 31, 1921	Completed to Oct. 31, 1920	Completed Oct. 31, 1920 to Oct. 31, 1921	Under con- struction Oct. 31, 1921	Completed Oct. 31, 1920	Completed to Oct. 31, 1920 to Oct. 31, 1921	Under con- struction Oct. 31, 1921
2 Alum.....	529.29			174,136			86.62		
1/0 Alum.....	547.41			286,842			111.89		
2/0 Alum.....	152.58			99,940			25.48		
3/0 Alum.....	2,166.06		4.86	1,806,494		4,053	281.40		
173000 c.m. Alum....	6.30			5,632					
4/0 Alum.....	205.40			226,170			12.00		
345000 c.m. Alum....	9.18			15,698					
6 S.R. Alum.....		9.69			1,860			3.23	
2 S.R. Alum.....	843.48	232.41	21.00	411,618	113,416	10,248	242.80	76.99	7.00
1/0 S.R. Alum.....	387.09	34.92		296,511	26,749		123.23	11.64	
125000 c.m. S.R. Alum	233.34			214,673			77.78		
3/0 S.R. Alum.....	83.46			102,405			26.30		
4/0 S.R. Alum.....	167.67	144.15		260,894	224,297		55.89	48.05	
6/0 S.R. Alum.....		4.98			13,884			1.66	
336000c.m. S.R. Alum.	7.71			21,495			2.57		
6 Copper.....	450.84	6.21		192,959	2,658		150.28	2.07	
4 Copper.....	166.32			113,098			53.02		
3 Copper.....	6.48			5,560					
2 Copper.....	60.72			65,699			13.44		
1/0 Copper.....	217.53			374,152			50.71		
2/0 Copper.....	98.67			214,051			32.89		
4/0 Copper.....	226.68			782,046					
3 x 13 Galv. Steel....			7.00			2,625			
4 x 12 Galv. Steel....	.25	6.87		165	4,534				
3 x 12 Galv. Steel....		45.24			22,394			12.13	
1/4" Galv. Steel.....	1,384.47	22.73		955,284	15,684		22.33		
9/32" Galv. Steel....	325.55	79.27		276,717	67,379		28.42		
5/16" Galv. Steel....	324.01	41.61	.81	349,931	44,939	875	90.58	6.20	
7/16" Galv. Steel....	31.50			65,520					
8 B. & S. Copper Clad Steel.....	.89			218					
10 B.W.G. Galv. Iron	5.53			2,090					
6 B.W.G. Galv. Iron	321.13			184,007			63.38		
Total.....	8,969.54	628.08	33.67	7,504,005	537,794	17,801	1,551.01	161.97	7.00

NOTE.—This sheet is based

WEIGHT OF CONDUCTORS
INCLUDING GROUND CABLES

Miles Double Circuit Lines			Miles Three Circuit Lines			Miles Four Circuit Lines			Total Miles Single, Double Three and Four Circuit Lines Completed to Oct. 31, 1921
Completed to Oct. 31, 1920	Completed Oct. 31, 1920 to Oct. 31, 1921	Under construction Oct. 31, 1921	Completed to Oct. 31, 1920	Completed Oct. 31, 1920 to Oct. 31, 1921	Under construction Oct. 31, 1921	Completed to Oct. 31, 1920	Completed Oct. 31, 1920 to Oct. 31, 1921	Under construction Oct. 31, 1921	
41.62			2.19						130.43
34.81			.08			.18			146.96
12.69									38.17
218.11		.81				1.10			500.61
1.05									1.05
29.90									41.90
1.53									1.53
									3.23
19.18	.24								339.21
2.90									137.77
									77.78
.76									27.06
									103.94
									1.66
									2.57
									152.35
1.21									54.23
1.08									1.08
3.40									16.84
10.90									61.61
									32.89
1.02						18.38			19.40
									12.13
									22.33
									28.42
									96.78
5.25									5.25
									63.38
385.41	.24	.81	2.27	....	...	19.66	....	....	2,120.56

on circuit and wire miles.

SIZE OF TELEPHONE WIRE USED ON TELEPHONE LINES

COMPLETED OCTOBER 31, 1920, TO OCTOBER 31, 1921

Section No.	Mileage	Gauge
N 175 x 5	.69	No. 9 B.W.G. Galv. Iron.
N 1262 x 2	.24	No. 10 B. & S. Copper Clad Steel.
H 7 x 9	12.13	3 x 12 Galv. Steel.
E 76 x 26	.25	No. 9 B.W.G. Galv. Iron.
E 74 x 24	6.20	No. 9 B.W.G. Galv. Iron.
E 21 x 72	7.53	No. 6 B. & S. Steel Reinforced Aluminum.
E 72 x 22	4.11	No. 6 B. & S. Steel Reinforced Aluminum.
L 1 x 66	8.12	3 x 12 Galv. Steel.
L 66 x 13	5.55	3 x 12 Galv. Steel.
L 13 x 14	5.36	3 x 12 Galv. Steel.
L 14 x 67	1.62	3 x 12 Galv. Steel.
L 67 x 15	8.91	3 x 12 Galv. Steel.
L 67 x 17	5.17	3 x 12 Galv. Steel.
L 68 x 18	1.66	No. 6 B. & S. Steel Reinforced Aluminum.
P 54 x 2	.37	3 x 13 Galv. Steel.
P 1 x 51	19.23	3 x 13 Galv. Steel.
P 51 x 52	22.22	3 x 13 Galv. Steel.
P 56 x 50	6.43	3 x 13 Galv. Steel.
Total...	115.79	

UNDER CONSTRUCTION OCTOBER 31, 1921

Section No.	Mileage	Gauge
N 1483 x 23	.81	No. 10 B. & S. Copper-clad Steel.
Total...	.81	

TELEPHONE LINES
GAUGE, LENGTH AND WEIGHT OF ALUMINUM, COPPER CLAD STEEL AND GALVANIZED IRON WIRE

Gauge	Wire Miles				Weight in Pounds				Single Circuit Mileage			Double Circuit Mileage			Three Circuit Mileage			1, 2 & 3 Circuit Totals
	Completed to Oct. 31, 1920	Completed to Oct. 31, 1921	Under construction to Oct. 31, 1921	Completed to Oct. 31, 1921	Completed to Oct. 31, 1920	Under construction to Oct. 31, 1921	Completed to Oct. 31, 1921	Completed to Oct. 31, 1920	Completed to Oct. 31, 1920	Under construction to Oct. 31, 1921	Completed to Oct. 31, 1920	Completed to Oct. 31, 1920	Under construction to Oct. 31, 1921	Completed to Oct. 31, 1920	Completed to Oct. 31, 1920	Under construction to Oct. 31, 1921	Completed to Oct. 31, 1921	
No. 8 B. & S. C. C. Steel.	203.18	203.18	.....	203.18	49,779	.....	49,779	.....	101.59	.....	.....	.....	.....	.....	.....	.....	.....	101.59
No. 10 B. & S. C. C. Steel.	1,032.62	1,032.62	1.62	1,032.62	159,023	.....	249	159,023	516.31	.....	.....	.....	.....	.....	.....	.....	.....	516.31
No. 10 B. & S. Copper.	137.16	137.16	.....	137.16	22,741	.....	.....	22,741	68.58	.....	.....	.....	.....	.....	.....	.....	.....	68.58
No. 8 B. W. G. Galv. Iron.	5.70	.....	.....	5.70	2,155	.....	.....	2,155	2.85	.....	.....	.....	.....	.....	.....	.....	.....	2.85
No. 9 B. W. G. Galv. Iron.	1,338.38	14.28	.....	1,352.66	408,206	4,355	.....	412,561	678.38	7.14	.....	.....	.....	.....	.....	.....	.....	685.52
No. 10 B. W. G. Galv. Iron.	82.00	.....	.....	82.00	20,500	.....	.....	20,500	41.00	.....	.....	.....	.....	.....	.....	.....	.....	41.00
No. 12 B. W. G. Galv. Iron.	49.60	.....	.....	49.60	8,184	.....	.....	8,184	24.80	.....	.....	.....	.....	.....	.....	.....	.....	24.80
No. 3 x 12 Galv. Steel. . . . .	.....	93.72	.....	93.72	.....	46,391	.....	46,391	.....	46.86	.....	.....	.....	.....	.....	.....	.....	46.86
No. 3 x 13 Galv. Steel.	153.16	96.50	.....	249.66	57,435	36,187	.....	93,622	76.58	48.25	.....	.....	.....	.....	.....	.....	.....	124.83
No. 6 B. & S. S. R. Alum.	319.17	26.60	.....	345.77	61,281	5,107	.....	66,388	52.49	13.30	.....	28.84	.....	.....	.....	.....	.....	94.63
Total.	3,320.97	231.10	1.62	3,552.07	789,304	92,040	249	881,344	1,562.58	115.55	.....	28.84	.....	.....	.....	.....	.....	1,706.97

ONTARIO POWER COMPANY.

Tabulation of Transmission and Telephone Lines.

Total mileage Ontario Power Co. lines.....	88.67
Total poles erected Ontario Power Co. lines.....	3,539
Total steel towers Ontario Power Co. lines.....	150
Total mileage single circuit lines.....	8.36
Total mileage double circuit lines.....	80.31
<hr/>	
Total span miles—Aluminum—	
52,608 c.m.....	2.00
173,000 c.m.....	11.48
336,420 c.m.....	.74
345,000 c.m.....	44.00
500,000 c.m.....	14.06
820,000 c.m.....	12.23
<hr/>	
Total span miles—Copper—	
1/0 B. & S.....	.36
1 B. & S.....	.29
2 B. & S.....	1.55
3 B. & S.....	4.33
6 B. & S.....	.72
<hr/>	
TELEPHONE LINE: Total span miles—Galv. Iron—	
No. 12 B.W.G.....	48.54
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Total Wire miles—Aluminum—	
52,608 c.m.....	6.00
173,000 c.m.....	58.59
336,420 c.m.....	2.22
345,000 c.m.....	255.81
500,000 c.m.....	84.36
820,000 c.m.....	36.69
<hr/>	
Total wire miles—Copper—	
1/0 B. & S.....	1.08
1 B. & S.....	.87
2 B. & S.....	4.77
3 B. & S.....	15.54
6 B. & S.....	4.32
<hr/>	
TELEPHONE LINE: Total wire miles, Galv. Iron.....	
No. 12 B.W.G.....	97.08
<hr/>	
Total weight—wire miles in pounds—Aluminum—	
52,608 c.m.....	1,566
173,000 c.m.....	53,379
336,420 c.m.....	3,703
345,000 c.m.....	437,435
500,000 c.m.....	209,213
820,000 c.m.....	148,961
<hr/>	
Total weight—wire miles in pounds—Copper—	
1/0 B. & S.....	1,858
1 B. & S.....	1,187
2 B. & S.....	5,161
3 B. & S.....	13,333
6 B. & S.....	1,849
<hr/>	
TELEPHONE LINE: Total weight—wire miles in pounds—Galv. Iron—	
No. 12 B.W.G.....	16,018

Total Weights, and Mileage of Cable and Wire

Cable and Wire	Wire Miles	Weight in Pounds
Aluminum Cable.....	443.67	853,257
Copper Wire.....	26.58	23,388
Galvanized Iron Wire.....	97.08	16,018

Mileage of lines tabulated according to voltages and number of circuits

Voltage	Single Circuit Totals	Double Circuit Totals	Total Single and Double Circuits
60,000	....	12.23	12.23
30,000	....	13.20	13.20
12,000	8.36	54.88	63.24
Total...	8.36	80.31	88.67

Gauge, Length and Weight of Conductors—Transmission Lines

B. & S. Gauge	Wire Miles	Weight Pounds	Miles of S.C. Lines	Miles of D.C. Lines	Total Single and Double Circuit
52,608 c.m. Alum.	6.00	1,566	2.00	....	2.00
173,000 c.m. "	58.59	52,379	3.43	8.05	11.48
336,420 c.m. "	2.22	3,703	.74	....	.74
345,000 c.m. "	255.81	437,435	2.73	41.27	44.00
500,000 c.m. "	84.36	209,213	....	14.06	14.06
820,000 c.m. "	36.69	148,961	12.23	....	12.23
1/0 Copper.....	1.08	1,858	.36	....	.36
1 Copper.....	.87	1,187	.29	....	.29
2 Copper.....	4.77	5,161	1.51	.04	1.55
3 Copper.....	15.54	13,333	3.48	.85	4.33
6 Copper.....	4.32	1,849	....	.72	.72
Total.....	470.25	876,645	26.77	64.99	91.76

Gauge, Length and Weight of Galvanized Iron Wire—Telephone Lines

Gauge	Wire Miles	Weight in Pounds	Single Circuit Miles
No. 12 B.W.G. Galv. Iron.	97.08	16,018	48.54
Total.....	97.08	16,018	48.54

DESCRIPTION
ONTARIO POWER

New Section Number	Old Section No.	From	To	Aver. height of Poles	Aver. Span	Miles	No. of Poles	Vol- tage
A				Feet.	Feet			
15 x 2	22 & 23	Toronto Power Co.	Transformer Station...	40	100	1.13	60	12,000
72 x 3		Jct. to Electric Metals	Port Colborne Sta.					30,000
72 x 12		Jct. to Electric Metals	Electric Metals Co.					30,000
2 x 63	E. & F.	Transformer Station...	Tie Jct. 12,000 & 30,000 V.	35	120	13.20	613	30,000
2 x 71	1 & 2	Transformer Station...	River Crossing.		550	6.00	75	60,000
						6.23	75	
63 x 72		Tie Jct. 12,000 & 30,000 V.	Jct. to Electric Metals					30,000
2 x 201		Transformer Station...	H.E.P.C. (Cable)					12,000
264 x 4	A & B	Jct. 358 to Pt. Robinson	Pt. Robinson.	35	120	2.00	122	12,000
281 x 6	R & S	Jct. 70	Nia. Dev. Montrose.	35	130	1.23	50	12,000
2 x 207		Transformer Station...	Nia. Falls W.W. (Cable)					2,200
2 x 209	L & M	Transformer Station...	Amer. Cyanamide Co.	35	100	2.67	141	12,000
269 x 9	O & P	Tap 98 to Nia. Falls City	Amer. Cyanamide Co.	35	100	.76	40	12,000
270 x 10		Jct. to Ramapo Iron W.	Ramapo Iron Works.					12,000
2 x 211		Transformer Station...	Q.V.N.F. Park (Table Rock House)					2,200
272 x 12	G & H	Jct. 595 to Elec. Metals.	Electro Metals Co.	45	120	.36	16	12,000
273 x 13	G & H	Jct. 602 to Can. St. Fdy	Can. Steel Foundries. ..	35	120	.25	18	12,000
274 x 14	G & H	Jct. 606 to P. Hersey Co	Page Hersey Co.	35	120	.20	9	12,000
276 x 16	A & B	Jct. 419 to Glass Wks. .	Pilkington Glass Works	35	120	.04	2	12,000
277 x 17	J & K	Jct. 331 to Coniagas RC	Coniagas Rad. Co.	35	120	.72	32	12,000
278 x 18	A & B	Jct. to 433 B. Bd. Co. .	Beaver Boad Co.	35	120	.04	2	12,000
278 x 19	A & B	Jct. to 433 B. Bd. Co. .	Ont. Paper Co.	35	120	.70	32	12,000
280 x 20	G & H	Jct. to 602 Emp. Cotn. .	Empire Cotton Co.	35	120	1.70	75	12,000
265 x 21	R & S	Jct. 180 to Nia. Dev., Chippawa.	Norton Co.	35	120	.22	10	12,000
263 x 38	J & K	Jct. 369 to Thorold.	Merrittion Station.	35	120	2.45	108	12,000
274 x 45	G & H	Jct. 606 to P. Hersey Co.	Dain Co. Station.	35	120	1.52	67	12,000
2 x 261	C & D	Transformer Station...	Jct. 18 to H.E.P.C. Stanley St.	35	120	.41	18	12,000
277 x 63	J & K	Jct. 331 to Coniagas Rad. Co.	Jct. 369 to Thorold.	35	120	.90	40	12,000
2 x 264	A & B	Transformer Station...	Jct 358 to Pt. Robinson	40	100	6.80	358	12,000
281 x 65	R & S	Jct. 70.	Jct. 180 to Nia. Dev., Chippawa.	35	120	2.50	110	12,000
2 x 266	R & S	Transformer Station...	Jct. 30 to Can. Nia. Power Co.	35	130	.74	30	12,000
16 x 266	R & S	Can. Nia. Power Co.	Jct. 30 to Can. N. P. Co.				30	12,000
2 x 268	J & K	Transformer Station...	Jct. 18 to H.E.P.C. Stanley St.	40	120	.40	18	12,000
2 x 269	O & P	Transformer Station...	Tap 98 to Nia. Falls City	35	100	1.85	98	12,000
280 x 72		Jct. to Emp. Cotton Co.	Jct. to Electro Met. Co.					12,000
281 x 72	G & H	Jct. 76 to Norton Co. .	Jct. 595 to Electro Met.	35	120	11.79	519	12,000
63 x 273		Tie Jct. 12,000 & 13,000 V.	Jct. to Can. Steel Fdys.					12,000
272 x 74	G & H	Jct. 595 to Elec. Metals	Jct. 606 to Page Hersey	35	120	.25	11	12,000
264 x 76	A & B	Jct. 358 to Pt. Robinson	Jct. 419 to Pilk'g'tn Glass	35	120	1.37	61	12,000
268 x 77	J & K	Jct. 18 to H.E.P.C.	Jct. 331 to Coniagas. Rad. Co.	40	120	7.12	313	12,000
219 x 77	J & K	Ont. Paper Co.	Jct. 331 to Coniagas Rad. Co.	50	120	.13	7	12,000
276 x 78	A & B	Jct. 419 to Pilk'g'tn G.	Jct. 443 to Beaver Bd. C	35	120	.53	24	12,000
273 x 80		Jct. to Can. Steel Fdy. .	Jct. to Emp. Cotton Co.					12,000
261 x 81	C & D	Jct. 18 to H.E.P.C. Stanley St.	Jct. 76 to Norton Co. .	35	120	1.32	58	12,000
266 x 81	R & S	Jct. 30 to Can. N. Power	Jct. 70.	35	130	.98	40	12,000
363 x 3		Jct. to Can. Cement Co	Can. Cement Co.					12,000
363 x 31		Jct. to Can. Cement Co	Pt. Colb'ne 12,000 V. Sta					12,000
364 x 32		Jct. to Can. Cork Co. .	Gov. Elev. Station.					12,000
364 x 34		Jct. to Can. Cork Co. .	Can. Cork Co.					12,000
3 x 363		Pt. Colb'ne 30,000 V. Sta.	Jct. to Can. Cement Co					12,000
3 x 364		Pt. Colb'ne 30,000 V. Sta.	Jct. to Can. Cork Co. .					12,000

OF LINES
COMPANY

SYSTEM SYMBOL "A"

No. of Cir- cuits	Power Cable B. & S. Gauge	Telephone Wire B. & S. & B.W.G. Gauge	Ground Cable	Power Ins. No.	Work Commenced	In Operation
2	500,000 c.m. Alum					
2	345,000 c.m. Alum					
2	820,000 c.m. Alum					
1	52,608 c.m. Alum	12 B.W.G. Gal.Iron				
2	345,000 c.m. Alum					
2	500,000 c.m. Alum					
2	500,000 c.m. Alum	12 B.W.G. Gal.Iron				
2	1/0 Copper (Dis	connected)				
2	3 Copper					
2	3 Copper	12 B.W.G. Gal.Iron				
2	3 Copper	12 B.W.G. Gal.Iron				
2	345,000 c.m. Alum					
2	6 Copper	12 B.W.G. Gal.Iron				
2	345,000 c.m. Alum	12 B.W.G. Gal.Iron				
2	345,000 c.m. Alum	12 B.W.G. Gal.Iron				
2	345,000 c.m. Alum					
2	173,000 c.m. Alum					
2	173,000 c.m. Alum	12 B.W.G. Gal.Iron				
2	173,000 c.m. Alum	12 B.W.G. Gal.Iron				
2	345,000 c.m. Alum	12 B.W.G. Gal.Iron				
2	345,000 c.m. Alum	12 B.W.G. Gal.Iron				
2	345,000 c.m. Alum	12 B.W.G. Gal.Iron				
2	173,000 c.m. Alum	12 B.W.G. Gal.Iron				
2	336,420 c.m. Alum					
2	345,000 c.m. Alum					
2	500,000 c.m. Alum	12 B.W.G. Gal.Iron	(Disconnected	With	J. & K.)	
2	500,000 c.m. Alum	12 B.W.G. Gal.Iron				
2	345,000 c.m. Alum	12 B.W.G. Gal.Iron				
2	3 Copper	12 B.W.G. Gal.Iron				
2	345,000 c.m. Alum	12 B.W.G. Gal.Iron				
2	500,000 c.m. Alum	12 B.W.G. Gal.Iron				
2	500,000 c.m. Alum	12 B.W.G. Gal.Iron				
2	345,000 c.m. Alum	12 B.W.G. Gal.Iron				
2	345,000 c.m. Alum	12 B.W.G. Gal.Iron				
2	345,000 c.m. Alum	12 B.W.G. Gal.Iron				
2	345,000 c.m. Alum					

DESCRIPTION

THOROLD

SYMBOL

New Section Number	Old Section No.	From	To	Aver. height of Poles	Aver. Span	Miles	No. of Poles	Volt- age
I. 51 x 1	Jct. with O.P.Co. Lines	Thorold Station.....	Feet 35	Feet 120	1.04	46	12,000

DESCRIPTION

NIAGARA SYSTEM

Lines Terminating

New Section Number	Old Section No.	From	To	Aver. height of Poles	Aver. Span	Miles	No. of Poles	Volt- age
N. 161 x 1	L. T. 75	Jct. Tower No. 308....	Welland E. S. & M....	feet 48	feet 250	1.20	28	46,000
175 x 5	N.C.R. 136-1	St. Catharines.....	Port Dalhousie.....	30	120	3.18	140	2,200
166 x 6	.....	Jct. Pole No. 52 LT 162	Stamford Tp. Stat.....	35	150	.69	26	12,000
167 x 7	207	S.W. Pole No. 100.....	Niagara-on-the-Lake....	30	125	7.83	334	12,000
169 x 9	198	Jct. Pole No. 115.....	Nat. Abrasive Co.....	.....	.....	.....	.....	.....
161 x 10	156	Jct. Pole No. 88.....	Niagara Falls Mun....	35	120	1.08	55	12,000
171 x 11	74	Jct. Tower No. 308....	Union Carbide Co.....	48	250	1.93	49	46,000
174 x 14	164	Jct. Tower No. 330....	Dunnville Mun.....	35	176	21.54	672	46,000
176 x 16	176	Jct. Tower No. 118....	St. Catharines Mun....	.....	.....	.....	.....	.....
177 x 17	168	Jct. Pole No. 52.....	Queenston Quarry.....	35	120	.41	18	12,000
101 x 21	170	Jct. Pole No. 72.....	St. David's.....	35	120	.08	2	12,000
.....	.....	Welland.....	Welland County Rock Crusher.	30	160	5.51	211	2,300

Lines Terminating

25 x 160	.....	O.P. Transf. Sta.....	Jct. at Allen & Murray St.	.....	.....	.....	.....	.....
170 x 61	74	Jct. Tower No. 118....	Jct. Tower No. 308....	48	250	8.59	190	46,000
173 x 65	162	Jct. Pole No. 147.....	Sw. Pole No. 206.....	35	100	1.13	59	12,000
177 x 66	171	Jct. Pole No. 72.....	Sw. Pole No. 100.....	35	120	.55	26	12,000
169 x 67	162	Jct. Pole No. 88.....	Jct. Pole No. 115.....	35	100	.53	27	12,000
160 x 69	162	Tap O.P. Line Stanley St	Jct. Pole No. 88.....	35	100	1.53	74	12,000
101 x 71	164-A	Welland.....	Jct. Tower No. 330....	48	250	.53	11	46,000
167 x 73	162	Jct. Pole No. 115.....	Jct. Pole No. 147.....	35	100	.52	32	12,000
165 x 76	167	S.W. Pole No. 206.....	Jct. Pole No. 52.....	35	120	.40	52	12,000
176 x 77	169	Jct. Pole No. 52.....	Jct. Pole No. 72.....	35	120	.44	20	12,000
1 x 170	73	Nia. H. T. Station.....	Jct. Tower No. 118....	48	250	5.01	118	46,000
1 x 174	175	Nia. H. T. Station.....	Jct. Tower No. 118....	.....	.....	5.25	.....	46,000

OF LINES

SYSTEM

“P”

No. of Cir- cuits	Power Cable B. & S. Gauge	Telephone Wire B. & S. & B.W.G. Gauge	Ground Cable	Power Ins. No.	Work Commenced	In Operation
1	3 B. & S. Copper	.....	.....	.....	.....	.....

OF LINES

NIAGARA DISTRICT 1

at Customers

No. of Cir- cuits	Power Cable- B. & S. Gauge	Telephone Wire B. & S. & B.W.G. Gauge	Ground Cable	Power Ins. No.	Work Commenced	In Operation
1	2/0 Copper	8 B. & S. C.C. Steel	1/4" Galv. Steel	O.B. 1914	July 11, 1914	Oct. 17, 1914
1	1/0 B. & S. Alum	.....	.....	.....	Oct. 16, 1912	Nov. 17, 1912
1	2 S.R. Alum	9 B.W.G. Gal. Iron	.....	O.B. 12546	May 10, 1921	July 3, 1921
1	6 Copper	.....	.....	.....	.....	.....
2	3 Copper	9 B.W.G. Gal. Iron	Built by O.P.C.	.....	.....	.....
4	4/0 Copper	8 B. & S. C.C. Steel	1/4" Gal. Steel	O.B. 1914	Mar. 15, 1914	Aug. 20, 1914
1	5/16 Gal. Steel	9 B.W.G. Gal. Iron	1/4" Gal. Steel	J.D. Insul.	Aug. 17, 1917	Mar. 21, 1918
1	No. 6 Copper	.....	Blt. by O.P.C.	.....	.....	.....
1	No. 6 Copper	.....	Blt. by O.P.C.	.....	.....	.....
1	2 S.R. Alum.	.....	3x13 Gal. Steel	C.P. 105	July 17, 1921	Sept. 22, 1921

at Junctions

4	4/0 Copper	8 B. & S. C.C. Steel	1/4" Gal. Steel	O.B. 1914	Mar. 15, 1914	Aug. 20, 1914
1	4 Copper	12 B.W.G. Gal. Iron	Blt. by O.P.Co.	.....	.....	.....
1	6 Copper	.....	" "	.....	.....	.....
2	173,000 c.m. Alum	12 B.W.G. Gal. Iron	" "	.....	.....	.....
2	345,000 c.m. Alum	12 B.W.G. Gal. Iron	" "	.....	.....	.....
1	2/0 Copper	8 B. & S. C.C. Steel	1/4" Gal. Steel	O.B. 1914	July 11, 1914	Oct. 17, 1914
2	173,000 c.m. Alum	12 B.W.G. Gal. Iron	Blt. by O.P.Co.	.....	.....	.....
1	6 Copper	.....	" "	.....	.....	.....
1	6 Copper	.....	" "	.....	.....	.....
4	4/0 Copper	8 B. & S. Steel C.C.	1/4" Gal. Steel	O.B. 1914	Mar. 15, 1914	Aug. 20, 1914
2	7/16" Galv. Steel	.....	.....	C.P. 1725	Nov. 13, 1917	.....

DESCRIPTION

NIAGARA SYSTEM

Lines Terminating

New Section Number	Old Section No.	From	To	Aver. height of Poles	Aver. Span	Miles	No. of Poles	Vol- tage
N.	L.T.			Feet	Feet			
2 x 201	1	Dundas H.T. Stat.	Hamilton.	50½	206	2.85	73	13,200
264 x 2	118	Jct. Pole No. 82.	Dundas Mun. Stn.	55	120	.12	7	13,200
235 x 6	40&40A	Dom. Sewer Pipe Co. . . .	Waterdown.	35	120	3.43	72	2,200
237 x 7	61	Caledonia D. S.	Caledonia. ....			.30		2,200
237 x 8	47A	Caledonia D.S.	Alabastine Co. ....			.17		2,200
270 x 10	50	Jct. Pole No. 941.	Ont. Gypsum Co.	40	120	5.91	229	13,200
202 x 11	209	Dundas Mun. Stat.	Copetown.	35	132	5.98	5	2,200

Lines Terminating

271 x 34	129	Jct. Pole No. 328.	Lynden D.S.	35	132	4.53	185	13,200
266 x 35	38	Jct. Pole No. 260.	Dom. Sew. Pipe Co. Sta.	40	120	1.93	90	13,200
2 x 237	47	Dundas H.T. Stat.	Caledonia D.S.	40	120	14.97	669	13,200
270 x 39	49	Jct. Pole No. 941.	Hagersville D.S.	40	120	3.85	173	13,200

Lines Terminating

2 x 263	43	Dundas H.T. Stat.	Jct. Pole No. 69.	40	120	1.21	65	13,200
263 x 64	118	Jct. Pole No. 69.	Jct. Pole No. 82.	55	120	.25	13	13,200
2 x 266	38	Dundas H.T. Stat.	Jct. Pole No. 260.	40	120	5.44	260	13,200
327 x 70	48	Caledonia D.S.	Jct. Pole No. 941.	40	120	6.10	267	13,200
264 x 71	129	Jct. Pole No. 82.	Jct. Pole No. 328.	35	132	5.78	245	13,200

DESCRIPTION

NIAGARA SYSTEM

New Section Number	Old Section No.	From	To	Aver. height of Poles	Aver. Span	Miles	No. of Poles	Vol- tage
N.	L.T.			Feet	Feet			
301 x 64	N.C.R. 607-3	Toronto Limits.	York Twp. Limits. ....			.22	12	.....
364 x 68	N.C.R. 607-1	York Twp. Limits.	Unionville Jct.					
368 x 67	N.C.R. 607-1	Unionville Jct.	Markham Jct.					
367 x 7	215	Markham Jct.	Markham.	40	125	5.58	235	4,000

OF LINES

DUNDAS DISTRICT 2

at Customers

No. of Circuits	Power Cable B. & S. Gauge	Telephone Wire B. & S. & B.W.G. Gauge	Ground Cable	Power Ins. No.	Work Commenced	In Operation
4	4/0 HD. Copper	10 C.C. Steel				
2	4 Copper	8 Iron Wire	1/4" Gal. Steel	C.P. 133	April 7, 1915	Oct. 4, 1915
1	2 Alum.	10 B.&S. Copper	1/4" Gal. Steel	C.P. 136	Feb. 25, 1915	Mar. 15, 1915
1	4 D.B.W.P. Cop'r	8 B.&S. C.C. Steel	1/4" Gal. Steel		Sept. 30, 1911	April 6, 1912
1	2/0 Copper				Nov. 20, 1912	Nov. 30, 1912
1	3/0 Alum.				Sept. 5, 1912	Sept. 20, 1912
1	6 H.D. Copper	8 B.&S. C.C. Steel	1/4" Gal. Steel	Thom 2041	June 15, 1912	Sept. 20, 1912
		9 B.W.G. Gal. Iron		C.P. 105	Sept. 10, 1919	Oct. 17, 1919

at Distributing Stations

1	2 S.R. Alum	9 B.W.G. Gal. Iron	1/4" Gal. Steel	O.B. 12547	July 24, 1915	Oct. 22, 1915
1	2 Alum.	8 B.&S. C.C. Steel	1/4" Gal. Steel	Thom 2041	July 21, 1911	April 6, 1912
1	3/0 Alum.	8 B.&S. C.C. Steel	1/4" Gal. Steel	Thom 2041	May 10, 1912	Sept. 20, 1912
1	2 Alum.	10 B.&S. C.C. Steel	1/4" Gal. Steel	Thom 2041	Feb. 28, 1913	Aug. 15, 1913

at Junctions

2	No. 4 Copper	10 B.&S. C.C. Steel	1/4" Gal. Steel	Thom 2041	Dec. 1, 1911	Dec. 21, 1911
2	No. 4 Copper	10 B. & S. Copper	1/4" Gal. Steel	C.P. 136	Feb. 25, 1915	Mar. 15, 1915
1	No. 2 Alum.	8 B.&S. C.C. Steel	1/4" Gal. Steel	Thom 2041	July 21, 1911	April 6, 1912
1	3/0 Alum.	8 B.&S. C.C. Steel	1/4" Gal. Steel	Thom 2041	June 22, 1912	Sept. 20, 1912
1	No. 2 S.R. Alum	9 B. W. Gal. Steel	1/4" Gal. Steel	O.B. 12547	July 24, 1915	Oct. 22, 1915

OF LINES

TORONTO DISTRICT 3

No. of Circuits	Power Cable B. & S. Gauge	Telephone Wire B. & S. & B.W.G. Gauge	Ground Cable	Power Ins. No.	Work Commenced	In Operation
1	6 Bare Copper		6BWG G. Iron			
1	2 S.R. Alum.		1/4" Gal. Steel	C.P. 105	Dec. 27, 1919	April 1, 1920

DESCRIPTION

NIAGARA SYSTEM

Lines Terminating

New Section Number	Old Section No.	From	To	Aver. height of Poles	Aver. Span	Miles	No. of Poles	Vol- tage
N.	L.T.			Feet	Feet			
469 x 1	20 & 22	Jct. Pole No. 38.....	London.....	40	120	2.91	151	13,200
432 x 3	116	Delaware D.S.....	Lambeth.....			6.59		4,000
432 x 4	117	Delaware D.S.....	Mt. Brydges.....			3.99		4,000
464 x 5	98	Jct. Pole No. 944.....	Strathroy Mun. Sta....	40	120	9.27	425	13,200
467 x 6	77	Jct. Pole No. 388.....	Thorndale.....	35	132	2.47	179	13,200
467 x 7	93	Jct. Pole No. 388.....	Deller Bros.....	25	132	.89	42	2,200
439 x 8	78	Dorchester D.S.....	Thamesford.....	35	132	5.88	280	13,200
439 x 9	177	Dorchester D.S.....	Dorchester.....	30	160	2.81	91	4,000
440 x 11	134	Lucan D.S.....	Granton.....	30	132	6.09	247	4,000
440 x 12	130	Lucan D.S.....	Pole No. 146.....	30	132	3.57	146	4,000
474 x 14	151	Jct. Pole No. 51.....	Hensall.....	30	132	5.12	205	4,000
475 x 15	161	Sarepta Met. Sta. 316	Zurich.....	30	132	5.17	211	4,000
475 x 16	160	Sarepta Met. Sta. 316	Dashwood.....	30	132	1.35	56	4,000
442 x 18	211	Ailsa Craig D.S.....	Parkhill.....	30	160	9.03	325	4,000
4 x 401	21	London H.T. Stat.....	London Sub. No. 1....	40	120	3.57	178	13,200
470 x 17	19	Jct. Pole No. 99.....	London Asylum.....	45	120	.16	11	13,200

Lines Terminating

462 x 32	119	Jct. Pole No. 760.....	Delaware D.S.....	55	120	.09	5	13,200
469 x 39	76	Jct. Pole No. 38.....	Dorchester D.S.....	35	132	6.17	219	13,200
472 x 42	210	Jct. Pole No. 757.....	Ailsa Craig D.S.....	30	132	9.92	403	13,200
440 x 43	136	Lucan D.S.....	Exeter D.S.....	35	132	13.24	558	13,200
472 x 40	99	Jct. Pole No. 757.....	Lucan D.S.....	35 & 40	132	3.00	123	13,200

Lines Terminating

463 x 62	96	Jct. Pole No. 462.....	Jct. Pole No. 760.....	40	120	6.59	298	13,200
4 x 463	95	London H.T. Sta.....	Jct. Pole No. 462.....	40	120	10.13	457	13,200
462 x 64	97	Jct. Pole No. 760.....	Jct. Pole No. 944.....	40	120	3.99	184	13,200
439 x 67	77	Dorchester D.S.....	Jct. Pole No. 388.....	35	132	4.02	132	13,200
4 x 469	18	London H.T. Stat.....	Jct. Pole No. 38.....	40	120	.81	38	13,200
469 x 70	19	Jct. Pole No. 38.....	Jct. Pole No. 99.....	45	120	1.38	61	13,200
470 x 72	99	Jct. Pole No. 99.....	Jct. Pole No. 757.....	35 & 40	132	16.18	659	13,200
443 x 74	151	Exeter D.S.....	Jct. Pole No. 51.....	30	132	1.07		4,000
474 x 75	159	Jct. Pole No. 51.....	Jct. Pole No. 316.....	30	132	7.58	265	4,000

OF LINES

LONDON DISTRICT 4

at Customers

No. of Cir- cuits.	Power Cable. B. & S. Gauge	Telephone Wire B. & S. & B.W.G. Gauge	Ground Cable	Power Ins. No.	Work Commenced	In Operation
1	3/0 Alum.	10 B.&S. C.C. Steel	1/4" Gal. Steel	Thom 2041	Oct. 24, 1910	Jan. 20, 1911
1	6 M.H.D. Copper	.....	1/4" Gal. Steel	C.P. 105	Jan. 25, 1915	Mar. 15, 1915
1	6 M.H.D. Copper	.....	.....	O.B. 9403	Jan. 7, 1915	Mar. 1, 1915
1	3/0 Alum.	10 B.&S. C.C. Steel	1/4" Gal. Steel	C.P. 136	Sept. 14, 1914	Mar. 30, 1914
1	2 Alum.	.....	1/4" Gal. Steel	Thom 2041	Oct. 10, 1913	Feb. 6, 1914
1	6 Copper	.....	8B&S CC Steel	.....	.....	.....
			as neutral	Parker 2822	Mar. 19, 1914	Mar. 19, 1915
1	2 Alum.	.....	1/4" Galv. Steel	Thom 2041	Oct. 13, 1913	Jan. 27, 1914
1	4 Copper	.....	1/4" Gal. Steel	.....	.....	.....
1	6 M.H.D. Copper	.....	6BWG. Ga. Iron	C.P. 259	April 6, 1916	June 29, 1916
1	2 S.R. Alum.	.....	1/4" Gal. Steel	O.B. 12546	July 28, 1915	Dec. 15, 1915
1	6 M.H.D. Copper	.....	6BWG Ga. Iron	O.B. 9403	Sept. 11, 1916	Dec. 21, 1916
1	2 S.R. Alum.	.....	1/4" Gal. Steel	C.P. 259	Mar. 29, 1917	Aug. 23, 1917
1	6 M.H.D. Copper	.....	1/4" Gal. Steel	C.P. 259	Mar. 29, 1917	Aug. 23, 1917
1	2 S.R. Alum.	.....	1/4" Gal. Steel	C.P. 105	Nov. 17, 1919	May 14, 1920
2	3/0 Alum.	10 B.&S. C.C. Steel	1/4" Gal. Steel	Thom 2041	Oct. 20, 1910	Jan. 20, 1911
1	2 Alum.	10 B.&S. C.C. Steel	1/4" Gal. Steel	Thom 2041	Oct. 26, 1910	Jan. 19, 1911

at Distributing Stations

1	2 Copper	10B.&S. C.C. Steel	1/4" Gal. Steel	O.B. 9413	Jan. 27, 1915	Feb. 1, 1915
1	2 Alum.	10BW.G. Gal. Iron	1/4" Gal. Steel	Thom 2041	Sept. 18, 1913	Jan. 27, 1914
1	2 S.R. Alum.	6 S.R. Alum	9/32" Ga. Steel	C.P. 793	Nov. 12, 1919	May 2, 1920
1	3/0 Alum.	9 B.W.G. Gal. Iron	1/4" Gal. Steel	O.B. 12546	Nov. 26, 1915	May 4, 1916
2	2 S.R. Alum.	10 B.W.G. Gal. Iron	1/4" Gal. Steel	C.P. 136	Oct. 23, 1914	Jan. 21, 1915

at Junctions

1	3/0 Alum.	10 B.&S. C.C. Steel	1/4" Gal. Steel	C.P. 136	Oct. 15, 1914	Nov. 30, 1914
1	3/0 Alum.	10 B.&S. C.C. Steel	1/4" Gal. Steel	C.P. 136	Sept. 1, 1914	Nov. 30, 1914
1	3/0 Alum.	10 B.&S. C.C. Steel	1/4" Gal. Steel	C.P. 136	Sept. 29, 1914	Nov. 30, 1914
1	2 Alum.	.....	1/4" Gal. Steel	Thom 2041	Oct. 10, 1913	Feb. 6, 1914
4	2-C. 2S.R. Alum.	.....	.....	.....	.....	.....
	1-C. 3/0 Alum	10 B.&S. C.C. Steel	1/4" Gal. Steel	Thom 2041	Oct. 26, 1910	Jan. 10, 1911
	1-C. 2 Alum.	.....	.....	.....	.....	.....
3	2-C. 2S. R. Alum	10 B.&S. C.C. Steel	1/4" Gal. Steel	Thom 2041	Oct. 26, 1910	Jan. 19, 1911
	1-C. 2 Alum.	.....	.....	.....	.....	.....
2	2 S.R. Alum.	10 B.W.G. Ga. Iron	1/4" Gal. Steel	C.P. 136	Oct. 23, 1914	Jan. 21, 1915
	2 S.R. Alum.	.....	.....	.....	.....	.....
2	6 M.H.D. Copper	.....	6BWG Ga. Iron	O.B. 9403	Sept. 11, 1916	Dec. 21, 1916
1	2 S.R. Alum	.....	1/4" Gal. Steel	C.P. 259	Mar. 21, 1917	Aug. 25, 1917

DESCRIPTION

NIAGARA SYSTEM

Lines Terminating

New Section Number	Old Section No.	From	To	Aver. height of Poles	Aver. Span	Miles	No. of Poles	Vol- tage
N. 5 x 501	L.T. 32	Guelph Struct. on Stat.	Property.....	Feet 40	Feet 120	.08	5	13,200
562 x 2	31	Jct. Pole No. 70.....	Ont. Agric. College....	40	120	.10	8	13,200
565 x 5	57A	Jct. Pole No. 155.....	Prison Farm.....	40	120	.08	3	13,200

Lines Terminating

564 x 33	86	Jct. Pole No. 776.....	Elora D.S.	40	120	1.18	57	13,200
564 x 34	87	Jct. Pole No. 776.....	Fergus D.S.	35	120	1.96	92	13,200
566 x 36	66	Jct. Pole No. 453.....	Rockwood D.S.	35	120	1.64	77	13,200
567 x 37	59	Jct. Pole No. 717.....	Acton D.S.	40	120	.07	5	13,200
568 x 38	94	Jct. Pole No. 1005.....	Cheltenham D.S.	35	132	5.06	218	13,200
568 x 39	65	Jct. Pole No. 1005.....	Georgetown D.S.	40	120	2.68	121	13,200

Lines Terminating

5 x 562	31	Guelph H.T. Stat.....	Jct. Pole No. 70.....	40	120	1.46	70	13,200
562 x 63	57	Jct. Pole No. 70.....	Jct. Pole No. 118.....	40	120	1.07	48	13,200
563 x 64	85	Jct. Pole No. 118.....	Jct. Pole No. 776.....	40	120	14.64	658	13,200
563 x 65	57	Jct. Pole No. 118.....	Jct. Pole No. 155.....	40	120	.86	37	13,200
565 x 66	58	Jct. Pole No. 155.....	Jct. Pole No. 453.....	40	120	6.91	298	13,200
566 x 67	59	Jct. Pole No. 453.....	Jct. Pole No. 717.....	40	120	5.78	264	13,200
567 x 68	65	Jct. Pole No. 717.....	Jct. Pole No. 1005.....	40	120	6.37	288	13,200

DESCRIPTION

NIAGARA SYSTEM

Lines Terminating

New Section Number	Old Section No.	From	To	Aver. height of Poles	Aver. Span	Miles	No. of Poles	Vol- tage
N. 6 x 601	L.T. 17	Preston H.T. Stat.....	Preston Cor. Sta.....	Feet 35	Feet 120	.14	11	6,600
601 x 2	35	Preston H.T. Stat.....	G.P. & H. Rly.....	40	120	.12	6	13,200
664 x 3	16	Jct. Pole No. 99.....	Galt Mun. Stat.....	40	120	3.75	175	13,200
664 x 4	15	Jct. Pole No. 99.....	Hespeler Mun. Stat....	40	120	2.09	99	6,600
6-D1-5	.....	Preston H.T. Stat.....	Freeport Sanitar.....	30	132	3.23	136	4,000
6-D1-1	72, 72A, & 72B	Preston H.T. Stat.....	Breslau.....	40	120	6.35	292	6,600

Lines Terminating

6 x 664	14	Preston H.T. Sta.....	Jct. Pole No. 99.....	45	120	2.04	99	{ 6,600 13,200
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OF LINES

GUELPH DISTRICT 5

at Customers

No. of Circuits	Power Cable B. & S. Gauge	Telephone Wire B. & S. & B.W.G. Gauge	Ground Cable	Power Ins. No.	Work Commenced	In Operation
3	1/0 Alum.	10 B.&S. C.C. Steel	1/4" Gal. Steel	.....	Aug. 7, 1911	Sept. 4, 1911
1	1/0 Alum.	10 B.&S. C.C. Steel	1/4" Gal. Steel	C.P. 793	July 21, 1911	Nov. 9, 1911
1	2 S.R. Alum.	8 B.&S. C.C. Steel	1/4" Gal. Steel	Thom 2041	May 14, 1913	Sept. 4, 1913

at Distributing Stations

1	3/0 Alum.	10 B.&S. C.C. Steel	1/4" Gal. Steel	C.P. 136	Aug. 18, 1914	Oct. 22, 1914
1	3/0 Alum.	10 B.&S. C.C. Steel	1/4" Gal. Steel	C.P. 136	Aug. 1, 1914	Oct. 22, 1914
1	2 S.R. Alum.	10 B.&S. C.C. Steel	1/4" Gal. Steel	Thom 2041	May 6, 1913	Aug. 1, 1913
1	3/0 S.R. Alum.	8 B.&S. C.C. Steel	1/4" Gal. Steel	Thom 2041	Aug. 19, 1912	Dec. 14, 1912
1	1/0 Alum.	10 B.&S. C.C. Steel	1/4" Gal. Steel	.....	June 10, 1914	July 3, 1914
1	3/0 Alum.	10 B.&S. C.C. Steel	1/4" Gal. Steel	Thom 2041	Mar. 11, 1913	Aug. 1, 1913

at Junctions

2	1-1/0 Alum.	10 B.&S. C.C. Steel	1/4" Gal. Steel	C.P. 793	July 21, 1911	Nov. 9, 1911
2	1-3/0 Alum.					
1	1-3/0 Alum.	8 B.&S. C.C. Steel	1/4" Gal. Steel	Thom 2041	Aug. 19, 1912	Dec. 14, 1912
1	3/0 S.R. Alum.					
1	3/0 Alum.	10 B.&S. C.C. Steel	1/4" Gal. Steel	C.P. 136	June 3, 1914	Oct. 22, 1914
1	3/0 S.R. Alum.	8 B.&S. C.C. Steel	1/4" Gal. Steel	Thom 2041	Aug. 19, 1912	Dec. 14, 1912
1	3/0 S.R. Alum.	8 B.&S. C.C. Steel	1/4" Gal. Steel	Thom 2041	Aug. 19, 1912	Dec. 14, 1912
1	3/0 S.R. Alum.	8 B.&S. C.C. Steel	1/4" Gal. Steel	Thom 2041	Aug. 19, 1912	Dec. 14, 1912
1	3/0 Alum.	10 B.&S. C.C. Steel	1/4" Gal. Steel	Thom 2041	Mar. 11, 1913	Aug. 1, 1913

OF LINES

PRESTON DISTRICT 6

at Customers

No. of Circuits	Power Cable B. & S. Gauge	Telephone Wire B. & S. & B.W.G. Gauge	Ground Cable	Power Ins. No.	Work Commenced	In Operation
1	2 Copper	10 B.&S. C.C. Steel	1/4" Gal. Steel	Thom 2041	Built by Preston Corp.	
1	1/0 Alum.	10 B.&S. C.C. Steel	1/4" Gal. Steel	Thom 2041	Mar. 13, 1911	Mar. 21, 1911
2	4/0 Alum.	10 B.&S. C.C. Steel	1/4" Gal. Steel	Thom 2041	Oct. 8, 1910	Jan. 19, 1911
1	2 Alum.	10 B.&S. C.C. Steel	1/4" Gal. Steel	Thom 2041	Oct. 8, 1910	Dec. 30, 1910
1	6 S.R. Alum.	.....	3x13 Gal. Steel	C.P. 505	June 1, 1921	July 23, 1921
1	2 Alum.	10 B.&S. C.C. Steel	1/4" Gal. Steel	.....	April 4, 1913	Dec. 23, 1913

at Junctions

3	1-2 Alum 2-4/0 Alum	10 B.&S. C.C. Steel	1/4" Gal. Steel	Thom 2041	Oct. 8, 1910	Jan. 19, 1911
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DESCRIPTION
NIAGARA SYSTEM

Lines Terminating

New Section Number	Old Section No.	From	To	Aver. height of Poles	Aver. Span	Miles	No. of Poles	Vol- tage
N.	L.T.			Feet	Feet			
762 x 1	6	Pole No. 10	Kitchener Mun. Stat...	45	120	.76	34	1,3200
762 x 2	5	Jct. Pole No. 9.....	Waterloo Mun. Stat...	40	120	1.64	79	1,3200
735 x 6	44	Baden D.S.....	Wellesley	30	150	7.92	252	4000
738 x 8	52 52A & 52B	Metering Stat.....	Petersburg and St Agatha.				76	4000

Lines Terminating

702 x 33	71	Waterloo	St. Jacobs D.S.....	40	120	6.28	299	13,200
733 x 34	71	St. Jacobs D.S.....	Elmira D.S.....	40	120	4.62	218	13,200
765 x 35	7A	Jct. Pole No. 405.....	Baden D.S.....	40	120	.11	7	13,200
766 x 37	7	Jct. Pole No. 463.....	New Hamburg D.S.....	40	120	1.89	92	13,200

Lines Terminating

7 x 762	4	Kitchener H.T. Stat...	Jct. Pole No. 9.....	40	120	.18	10	13,200
7 x 765	7	Kitchener H.T. Stat...	Jct. Pole No. 405.....	40	120	9.09	405	13,200
765 x 66	7	Jct. Pole No. 405.....	Jct. Pole No. 463.....	40	120	1.29	58	13,200

DESCRIPTION
NIAGARA SYSTEM

Lines Terminating

N.	L.T.			Feet	Feet			
863 x 3	30	Jct. Pole No. 647.....	Mitchell Mun. Sta.....	40	120	1.27	59	26,400
834 x 4	158	Dublin D.S.....	Dublin.....	30	150	1.26	47	4,000
865 x 5	29	Jct. Pole No. 1153.....	Seaforth Mun. Sta.....	40	120	1.50	74	26,400
866 x 6	28	Jct. Pole No. 1550.....	Clinton Mun. Sta.....	40	120	1.27	62	26,400
873 x 12	180	Jct. Pole No. 263.....	Moorefield	30	150	1.36	52	4,000
866 x 7	150	Jct. Pole No. 1550.....	Goderich Mun. Sta.....	40	120	13.61	610	26,400
873 x 13	178	Jct. Pole No. 263.....	Drayton.....	30	150	3.54	123	4,000

Lines Terminating

8 x 832	125	Stratford H.T. Sta.....	Tavistock D.S.....	35	132	9.72	398	26,400
863 x 34	148	Jct. Pole No. 647.....	Dublin D.S.....	40	120	5.08	224	26,400
868 x 38	139	Jct. Pole No. 802.....	Milverton D.S.....	35	132	.96	38	26,400
869 x 39	141	Jct. Pole No. 1314.....	Listowel D.S.....	35	132	2.77	120	26,400
871 x 40	142	Jct. Pole No. 1726.....	Palmerston D.S.....	35	132	.42	18	26,400
871 x 41	143	Jct. Pole No. 1726.....	Harriston D.S.....	35	132	6.12	260	26,400

Lines Terminating

867 x 63	147	Jct. Pole No. 311.....	Jct. Pole No. 647.....	40	120	7.61	336	26,400
834 x 65	148	Dublin D.S.....	Jct. Pole No. 1153.....	40	120	6.28	282	26,400
865 x 66	149	Jct. Pole No. 1153.....	Jct. Pole No. 1550.....	40	120	8.84	397	26,400
8 x 867	146	Stratford H.T. Stat.....	Jct. Pole No. 311.....	40	120	6.81	311	26,400
867 x 68	138	Jct. Pole No. 311.....	Jct. Pole No. 802.....	35	132	11.92	491	26,400
868 x 69	140	Jct. Pole No. 892.....	Jct. Pole No. 1314.....	35	132	12.83	512	26,400
869 x 70	142	Jct. Pole No. 1314.....	Jct. Pole No. 1657.....	35	132	8.40	343	26,400
872 x 71	142	Jct. Pole No. 1687.....	Jct. Pole No. 1726.....	35	132	.84	39	26,400
870 x 72	142	Jct. Pole No. 1657.....	Jct. Pole No. 1687.....	35	132	.78	30	26,400
8 40 x 73	178	Palmerston D.S.....	Jct. Pole No. 263.....	30	150	7.09	237	4,000

DESCRIPTION
NIAGARA SYSTEM

Lines Terminating

N.	L.T.			Feet	Feet			
961 x 32	46	Jct. Pole No. 33.....	St. Marys P.C. Co. Dist. Stat.....	40	120	1.55	49	1,3200

Lines Terminating

9 x 961	46	St. Marys H.T. Stat...	Jct. pole No. 33.....	40	120	.67	33	1,3200
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OF LINES

KITCHENER DISTRICT 7

at Customers

No. of Circuits	Power Cable B. & S. Gauge	Telephone Wire B. & S. & B.W.G. Gauge	Ground Cable	Power Ins. No.	Work Commenced	In Operation
2	1/0 Alum.	10 B.&S. C.C. Steel	1/4" Gal. Steel	Thom 2041	Aug. 25, 1910	Sept. 11, 1910
2	1/0 Alum.	10 B.&S. C.C. Steel	1/4" Gal. Steel	Thom 2041	Sept. 11, 1910	Nov. 25, 1910
1	No. 4 Copper.	.....	6BWG Gal. Iron	O.B. 9403	May 16, 1916	Oct. 23, 1916

at Distributing Stations

1	No. 2 Alum.	10 B.&S. C.C. Steel	1/4" Gal. Steel	Thom 2041	May 17, 1913	Oct. 25, 1913
1	No. 2 Alum.	10 B.&S. C.C. Steel	1/4" Gal. Steel	Thom 2041	May 17, 1913	Oct. 25, 1913
2	No. 2 Alum.	10 B.&S. C.C. Steel	1/4" Gal. Steel	Thom 2041	.....	.....
2	No. 2 Alum.	10 B.&S. C.C. Steel	1/4" Gal. Steel	Thom 2041	Sept. 11, 1910	Feb. 3, 1911

at Junctions

4	1/0 Alum.	10 B.&S. C.C. Steel	1/4" Gal. Steel	Thom 2041	Aug. 25, 1910	Sept. 11, 1910
2	2 Alum.	10 B.&S. C.C. Steel	1/4" Gal. Steel	Thom 2041	Sept. 11, 1910	Feb. 3, 1911
2	2 Alum.	10 B.&S. C.C. Steel	1/4" Gal. Steel	Thom 2041	Sept. 11, 1910	Feb. 3, 1911

OF LINES

STRATFORD DISTRICT 8

at Customers

2	No. 2 Alum.	10 B.&S. C.C. Steel	1/4" Gal. Steel	Thom 2041	Mar. 24, 1911	Aug. 3, 1911
1	6 M.H.D. Copper	.....	6BWG Gal. Iron	C.P. 259	June 8, 1917	Sept. 25, 1917
2	No. 2 Alum.	10 B.&S. C.C. Steel	1/4" Gal. Steel	Thom 2041	Mar. 25, 1911	Sept. 13, 1911
2	3/0 Alum.	10 B.&S. C.C. Steel	1/4" Gal. Steel	Thom 2041	April 6, 1911	Aug. 4, 1911
1	6 Copper.	.....	6BWG Gal. Iron	C.P. 105	Dec. 1, 1917	Feb. 22, 1918
2	3/0 Alum.	10 B.&S. C.C. Steel	1/4" Gal. Steel	C.P. 133	April 23, 1913	Dec. 23, 1914
1	4 Copper.	.....	6BWG Gal. Iron	C.P. 105	Oct. 24, 1917	Feb. 22, 1918

at Distributing Stations

1	6 B.W.G. Gal. Iron	9 B.W.G. Gal. Iron	6BWG Gal. Iron	C.P. 133	Sept. 9, 1915	Oct. 26, 1916
2	3/0 Alum.	10 B.&S. C.C. Steel	1/4" Gal. Steel	C.P. 133	April 23, 1913	Dec. 23, 1914
1	2 S.R. Alum.	9 B.W.G. Gal. Iron	1/4" Gal. Steel	O.B. 11622	Oct. 15, 1915	May 18, 1916
1	2 S.R. Alum.	9 B.W.G. Gal. Iron	1/4" Gal. Steel	O.B. 11622	Oct. 28, 1915	May 27, 1916
1	1/0 S.R. Alum.	9 B.W.G. Gal. Iron	1/4" Gal. Steel	O.B. 11622	Oct. 14, 1915	June 6, 1916
1	1/0 S.R. Alum.	9 B.W.G. Gal. Iron	1/4" Gal. Steel	O.B. 11622	Dec. 10, 1915	June 30, 1916

at Junctions

2	3/0 Alum.	10 B.&S. C.C. Steel	1/4" Gal. Steel	C.P. 133	April 23, 1913	Dec. 23, 1914
2	3/0 Alum.	10 B.&S. C.C. Steel	1/4" Gal. Steel	C.P. 133	April 23, 1913	Dec. 23, 1914
2	3/0 Alum.	10 B.&S. C.C. Steel	1/4" Gal. Steel	C.P. 133	April 23, 1913	Dec. 23, 1914
2	3/0 Alum.	10 B.&S. C.C. Steel	1/4" Gal. Steel	C.P. 133	April 23, 1913	Dec. 23, 1914
1	1/0 S.R. Alum.	9 B.W.G. Gal. Iron	1/4" Gal. Steel	O.B. 11622	Sept. 20, 1915	May 18, 1916
1	1/0 S.R. Alum.	9 B.W.G. Gal. Iron	1/4" Gal. Steel	O.B. 11622	Oct. 13, 1915	May 27, 1916
1	1/0 S.R. Alum.	9 B.W.G. Gal. Iron	1/4" Gal. Steel	O.B. 11622	Oct. 14, 1915	June 6, 1916
1	1/0 S.R. Alum.	9 B.W.G. Gal. Iron	1/4" Gal. Steel	O.B. 11622	Oct. 14, 1915	June 6, 1916
1	1/0 S.R. Alum.	9 B.W.G. Gal. Iron	1/4" Gal. Steel	O.B. 11622	Oct. 14, 1915	June 6, 1916
1	4 Copper.	.....	6BWG Gal. Iron	C.P. 105	Oct. 24, 1917	Feb. 22, 1918

OF LINES

ST. MARYS DISTRICT 9

at Distributing Stations

1	3/0 Alum.	8 B.&C. C. Steel	1/4" Gal. Steel	Thom 2041	June 15, 1912	Sept. 7, 1912
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at Junctions

1	3/0 Alum.	8 B. & S.C.C. Steel	1/4" Gal. Steel	Thom 2041	June 15, 1912	Sept. 7, 1912
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DESCRIPTION
NIAGARA SYSTEM

Lines Terminating

New Section Number	Old Section No.	From	To	Aver. height of Poles	Aver. Span	Miles	No. of Poles	Vol- tage
N.	L.T.			Feet	Feet			
1062 x 2	109	Jct. pole No. 76.....	W.T.V. & I. Rly.....	.....	.....	.02	2	13,200
1073 x 5	8	Jct. pole No. 324.....	Ingersoll Mun. Stat....	40	120	2.80	131	13,200
1036 x 7	11B	Norwich Dist. Stat.....	Burgessville.....	30	160	3.25	115	2,300
1036 x 8	11A	Norwich Dist. Stat.....	Otterville.....	30	160	4.50	158	2,300
1066 x 9	10	Jct. pole No. 508.....	Tillsonburg Mun. Stat..	40	120	10.30	467	13,200
1009 x 10	200-							
	205	Tillsonburg.....	Springfield.....	30	160	12.54	418	4,000
1034 x 13	42	Beachville Dist. Sta....	Beachville White Lime Co.	.....	.....	1.00	.....	2,200

Lines Terminating

1064 x 33	106	Jct. pole No. 289.....	Embro Dist. Stat.....	35	132	6.04	256	13,200
1064 x 34	45	Jct. pole No. 289.....	Beachville Dist. Stat....	30	50	.01	1	13,200
1066 x 36	11	Jct. pole No. 508.....	Norwich Dist. Stat.....	40	120	4.59	208	13,200

Lines Terminating

10 x 1062	8	Woodstock H.T. Stat....	Jct. pole No. 76.....	40	120	1.57	76	13,200
1062 x 64	8	Jct. pole No. 76.....	Jct. pole No. 289.....	40	120	4.70	213	13,200
10 x 1066	9	Woodstock H.T. Stat....	Jct. pole No. 508.....	40	120	11.08	508	13,200
1064 x 73	8	Jct. pole No. 289.....	Jct. pole No. 324.....	40	120	.83	35	13,200

DESCRIPTION
NIAGARA SYSTEM

Lines Terminating

New Section Number	Old Section No.	From	To	Aver. height of Poles	Aver. Span	Miles	No. of Poles	Vol- tage
N.	L.T.			feet	feet			
11 x 1101	12	St. Thomas H.T. Stat....	St. Thomas Mun. Sta. .	40	120	1.13	47	13,200
1135 x 6	154	West Lorne D.S.....	Rodney.....	30	132	4.00	161	4,000

Lines Terminating

1164 x 34	121	Jct. Pole No. 753.....	Dutton D.S.....	30	132	.16	7	13,200
1164 x 35	153	Jct. Pole No. 753.....	West Lorne D.S.....	30	132	7.62	311	13,200
1168 x 37	41	Jct. Pole No. 112.....	Port Stanley D.S.....	35	120	10.03	462	13,200
1168 x 38	174	Jct. Pole No. 112.....	Aylmer D.S.....	35	132	9.60	405	13,200

Lines Terminating

11 x 1162	121	St. Thomas H.T. Stat....	Jct. Pole No. 5.....	30	132	.04	5	13,200
1162 x 64	121	Jct. Pole No. 5.....	Jct. Pole No. 753.....	30	132	18.33	748	13,200
11 x 1168	41	St. Thomas H.T. Stat....	Jct. Pole No. 112.....	35	120	2.24	112	13,200

OF LINES

WOODSTOCK DISTRICT 10

at Customers

No. of Cir- cuits.	Power Cable B. & S. Gauge	Telephone Wire B. & S. & B.W.G. Gauge	Ground Cable	Power Ins. No.	Work Commenced	In Operation
1	2 Alum.	10 B.&S. C.C. Steel	1/4" Gal. Steel	C.P. 136	Sept. 12, 1914	Sept. 13, 1914
2	1/0 Alum.	10 B.&S. C.C. Steel	1/4" Gal. Steel	Thom 2041	Nov. 14, 1910	Mar. 28, 1911
1	6 Copper.	.....	1/4" Gal. Steel	.....	.....	Dec. 7, 1916
1	6 Copper.	.....	1/4" Gal. Steel	.....	.....	1916
2	1/0 Alum.	10 B.&S. C.C. Steel	1/4" Gal. Steel	Thom 2041	Jan. 2, 1911	April 29, 1911
1	6 Copper.	.....	1/4" Gal. Steel	.....	Nov. 23, 1916	July 1, 1917
1	2 Alum.	.....	.....	.....	.....	.....

at Distributing Stations

1	1/4" Gal. Steel	10 B.&S. C.C. Steel	1/4" Gal. Steel	C.P. 136	Oct. 1, 1914	Dec. 22, 1914
1	1/0 Alum.	.....	1/4" Gal. Steel	Thom 2041	June 1, 1912	July 17, 1912
1	2 Alum.	10 B.&S. C.C. Steel	1/4" Gal. Steel	Thom 2041	Feb. 13, 1911	Mar. 30, 1911

at Junctions

2	1/0 Alum.	10 B.&S. C.C. Steel	1/4" Gal. Steel	Thom 2041	Nov. 14, 1910	Mar. 28, 1911
2	1/0 Alum.	10 B.&S. C.C. Steel	1/4" Gal. Steel	Thom 2041	Nov. 14, 1910	Mar. 28, 1911
2	1/0 Alum.	10 B.&S. C.C. Steel	1/4" Gal. Steel	Thom 2041	Jan. 2, 1911	April 29, 1911
2	1/0 Alum.	10 B.&S. C.C. Steel	1/4" Gal. Steel	Thom 2041	Nov. 14, 1910	Mar. 28, 1911

OF LINES

ST. THOMAS DISTRICT 11

at Customers

No. of Cir- cuits	Power Cable B. & S. Gauge	Telephone Wire B. & S. & B.W.G. Gauge	Ground Cable	Power Ins. No.	Work Commenced	In Operation
2	1/0 Alum.	10 B.&S. C.C. Steel	1/4" Gal. Steel	Thom 2041	Dec. 14, 1910	Dec. 30, 1910
1	6 M.H.D. Copper	.....	6 BWG G. Iron	C.P. 259	Jan. 2, 1917	Jan. 15, 1917

at Distributing Stations

1	1/0 Alum.	.....	.....	C.P. 136	May 3, 1915	Aug. 27, 1915
1	6 B.W.G. G. Iron	.....	.....	C.P. 136	Dec. 4, 1916	Dec. 22, 1916
1	2 Alum.	8 B.&S. C.C. Steel	1/4" Gal. Steel	Thom 2041	Oct. 16, 1911	Mar. 9, 1912
1	1/4" Gal. Steel.	9 B.W.G. G. Iron.	1/4" Gal. Steel	C.P. 889	Aug. 27, 1917	Feb. 11, 1918

at Junctions

1	1/0 Alum.	.....	.....	C.P. 136	May 3, 1915	Aug. 27, 1915
1	1/0 Alum.	.....	.....	C.P. 136	May 3, 1915	Aug. 27, 1915
1	2 Alum.	8 B.&S. C.C. Steel	1/4" Gal. Steel	Thom 2041	Oct. 16, 1911	Mar. 9, 1912

DESCRIPTION
NIAGARA SYSTEM

Lines Terminating

New Section Number	Old Section No.	From	To	Aver. height of Poles	Aver. Span	Miles	No. of Poles	Vol- tage
N.	L.T.			Feet	Feet			
1262 x 1	69	Jct. Pole No. 246.....	Brantford Mun. Sta....	40	120	1.47	72	26,400
1262 x 2	69A	Jct. Pole No. 246.....	L.E. & N. Rly.....	45	125	.24	13	26,400
12 x 1203	128	Brant H.T. Stat.....	St. George.....	30	132	9.19	199	4,000
1267 x 6	114	Jct. Pole No. 1230.....	Simcoe Mun. Sta.....	35	132	.06	5	26,400
1267 x 7	114A	Jct. Pole No. 1230.....	L.E. & N. Ry. Simcoe .	45	120	.25	11	26,400
1268 x 8	68	Jct. Pole No. 40.....	Paris Mun. Sta.....	40	120	2.44	110	26,400
1274 x 12	92	Jct. Pole No. 714.....	Plattsville.....	35	132	6.84	269	4,000
1241 x 13	91	Drumbo D.S.....	Princeton.....	35	132	5.65	234	4,000
1274 x 14	184	Jct. Pole No. 714.....	Wolverton Mills.....	35	132	1.81	1	4,000
1206 x 15		Simcoe D.S.....	Port Dover.....	35	160	7.00	207	4,000

Lines Terminating

1264 x 34	112	Jct. Pole No. 253.....	Burford D.S.....	35	132	3.48	142	26,400
1265 x 35	113A	Jct. Pole No. 869.....	Waterford D.S.....	40	130	.09	4	26,400
1270 x 40	89	Jct. Pole No. 448.....	Ayr Dist. Stat.....	35	120	1.20	56	26,400
1272 x 41	90	Jct. Pole No. 713.....	Drumbo Dist. Stat....	35	132	.50	21	26,400

Lines Terminating

12 x 1261	69	Brant H.T. Sta.....	Jct. Pole No. 19.....	40	120	.33	19	26,400
1261 x 62	69	Jct. Pole No. 19.....	Jct. Pole No. 246.....	40	120	4.86	227	26,400
1268 x 64	111	Jct. Pole No. 40.....	Jct. Pole No. 253.....	35	132	5.86	228	26,400
1264 x 65	113	Jct. Pole No. 253.....	Jct. Pole No. 869.....	35	132	15.06	616	26,400
1275 x 67	114	Jct. Pole No. 1145.....	Jct. Pole No. 1230.....	35	132	2.02	85	26,400
1265 x 75	114	Jct. Pole No. 869.....	Jct. Pole No. 1145.....	35	132	6.79	276	26,400
1261 x 68	68	Jct. Pole No. 19.....	Jct. Pole No. 40.....	40	120	.44	21	26,400
1208 x 69	88	Paris.....	Jct. Pole No. 196.....	35	132	1.09	49	26,400
1269 x 70	88	Jct. Pole No. 196.....	Jct. Pole No. 448.....	35	132	6.14	252	26,400
1270 x 71	90	Jct. Pole No. 448.....	Jct. Pole No. 636.....	35	132	4.53	188	26,400
1271 x 72	90	Jct. Pole No. 636.....	Jct. Pole No. 713.....	35	132	1.80	77	26,400
1241 x 74	92	Drumbo D.S.....	Jct. Pole No. 714.....	35	132	.49	21	4,000

DESCRIPTION
NIAGARA SYSTEM

Lines Terminating

N.	L.T.							
1331 x 2	26 & 26A	Port Credit D.S.....	Port Credit Brick Wks..	45	120	.88	43	13,200
1363 x 3	163	Jct. Pole No. 30.....	Shale Brick Co.....	55	120	1.22	59	13,200
1368 x 4	27	Jct. Pole No. 230.....	Brampton Mun. Sta. .	40	120	6.17	276	13,200
1367 x 5	79A	Jct. Pole No. 27.....	Milton Br., Streetsville	35	120	.77	36	4,000
1370 x 7	181	Jct. Pole No. 52.....	Tor. Milling Co.....	25	120	.72	33	4,000
1369 x 8	62	Jct. Pole No. 381.....	Milton Mun. Stat.....	40	120	13.36	592	13,200
1370 x 11	214	Jct. Pole No. 52.....	W. D. Reid & Sons....	30	132	.22	9	4,000

Lines Terminating

1362 x 31	26	Jct. Pole No. 84.....	Port Credit D.S.....	40	120	.32	16	13,200
1369 x 39	79	Jct. Pole No. 381.....	Streetsville D.S.....	45	120	.41	19	13,200

Lines Terminating

13 x 1361	26	Cooksville H. T. Sta....	Jct. Pole No. 6.....	40	120	.08	6	13,200
1361 x 62	26	Jct. Pole No. 6.....	Jct. Pole No. 84.....	40	120	1.79	78	13,200
13 x 1363	27	Cooksville H.T. Sta....	Jct. Pole No. 30.....	40	120	.57	30	13,200
1363 x 64	27	Jct. Pole No. 30.....	Jct. Pole No. 89.....	40	120	1.32	59	13,200
1339 x 67	79A	Streetsville D.S.....	Jct. Pole No. 27.....	35	120	.53	22	4,000
1364 x 68	27	Jct. Pole No. 89.....	Jct. Pole No. 230.....	40	120	3.18	141	13,200
1368 x 69	62	Jct. Pole No. 230.....	Jct. Pole No. 381.....	40	120	3.36	151	13,200
1362x1661	36	Jct. Pole No. 84.....	Jct. Pole No. 332.....	45	120	5.48	250	13,200
1364x1664	34	Jct. Pole No. 89.....	Jct. Pole No. 419.....	40	120	7.30	330	13,200
1367x70	181	Jct. Pole No. 27.....	Jct. Pole No. 52.....	25	120	.51	25	4,000

OF LINES

BRANT DISTRICT 12

at Customers

No. of Circuits	Power Cable B. & S. Gauge	Telephone Wire B. & S. & B.W.G Gauge	Ground Cable	Power Ins. No.	Work Commenced	In Operation
2	3/0 Alum.	10 B.&S. C.C. Steel	1/4" Gal. Steel	C.P. 102	Dec. 15, 1913	Jan. 17, 1914
2	2 S.R. Alum.	10 B.&S. C.C. Steel	1/4" Gal. Steel	.....	Sept. 9, 1921	Sept. 21, 1921
1	2 S.R. Alum.	.....	1/4" Gal. Steel	O.B. 9403	July 1, 1915	Aug. 17, 1915
1	2 S.R. Alum.	10 B.&S. H.D. Cop.	1/4" Gal. Steel	C.P. 102	Nov. 26, 1914	May 9, 1915
1	2 S.R. Alum.	10 B.W.G. G. Iron.	1/4" Gal. Steel	C.P. 133	.....	July 14, 1916
2	3/0 Alum.	10 B.&S. C.C. Steel	1/4" Gal. Steel	C.P. 102	Nov. 11, 1913	Jan. 3, 1914
1	4 Copper.	.....	1/4" Gal. Steel	Parker 2822	Aug. 17, 1914	Dec. 1, 1914
1	6 Copper.	.....	1/4" Gal. Steel	Parker 2822	Aug. 17, 1914	Dec. 18, 1914
1	6 M.H.D. Copper	.....	.....	C.P. 105	Sept. 18, 1918	Oct. 22, 1918
1	2 S.R. Alum.	.....	3x13 Gal. Steel	C.P. 105	July 6, 1921	.....

at Distributing Stations

1	2 S.R. Alum.	10 B.&S. H.D. Cop.	1/4" Gal. Steel	C.P. 102	Nov. 21, 1914	May 6, 1915
1	2 S.R. Alum.	10 B.&S. H.D. Cop.	1/4" Gal. Steel	C.P. 102	Nov. 21, 1914	May 10, 1915
1	1/0 Alum.	10 B.&S. C.C. Steel	1/4" Gal. Steel	C.P. 102	Sept. 15, 1914	Dec. 1, 1914
1	1/0 Alum.	10 B.&S. C.C. Steel	1/4" Gal. Steel	C.P. 102	July 13, 1914	Dec. 1, 1914

at Junctions

2	3/0 Alum.	10 B.&S. C.C. Steel	1/4" Gal. Steel	C.P. 102	Dec. 15, 1913	Jan. 17, 1914
2	3/0 Alum.	10 B.&S. C.C. Steel	1/4" Gal. Steel	C.P. 102	Dec. 15, 1913	Jan. 17, 1914
1	2 S.R. Alum.	10 B.&S. Copper.	1/4" Gal. Steel	C.P. 102	Nov. 6, 1914	May 6, 1915
1	2 S.R. Alum.	10 B.&S. H.D. Cop.	1/4" Gal. Steel	C.P. 102	Nov. 21, 1914	May 10, 1915
1	2 S.R. Alum.	10 B.&S. H.D. Cop.	1/4" Gal. Steel	C.P. 102	Nov. 26, 1914	May 9, 1915
1	2 S.R. Alum.	10 B.&S. H.D. Cop.	1/4" Gal. Steel	C.P. 102	Nov. 26, 1914	May 9, 1915
2	3/0 Alum.	10 B.&S. C.C. Steel	1/4" Gal. Steel	C.P. 102	Nov. 11, 1913	Jan. 3, 1914
1	1/0 Alum.	10 B.&S. C.C. Steel	1/4" Gal. Steel	C.P. 102	July 21, 1914	Dec. 1, 1914
1	1/0 Alum.	10 B.&S. C.C. Steel	1/4" Gal. Steel	C.P. 102	July 21, 1914	Dec. 1, 1914
1	1/0 Alum.	10 B.&S. C.C. Steel	1/4" Gal. Steel	C.P. 102	July 13, 1914	Dec. 1, 1914
1	1/0 Alum.	10 B.&S. C.C. Steel	1/4" Gal. Steel	C.P. 102	July 13, 1914	Dec. 1, 1914
1	4 Copper.	.....	1/4" Gal. Steel	Parker 2822	Aug. 17, 1914	Dec. 1, 1914

OF LINES

COOKSVILLE DISTRICT 13

at Customers

2	2 Alum.	10 B.&S. C.C. Steel	1/4" Gal. Steel	Thom 2041	April 5, 1911	July 23, 1911
1	2 S.R. Alum.	10 B.&S. C.C. Steel	1/4" Gal. Steel	Thom 2041	Mar. 6, 1917	April 22, 1917
2	2 Alum.	10 B.&S. C.C. Steel	1/4" Gal. Steel	Thom 2041	Feb. 15, 1911	May 6, 1911
1	6 Copper.	.....	6 BWG G. Iron	.....	.....	.....
1	2 Copper.	.....	6 BWG G. Iron	C.P. 105	Feb. 2, 1918	Mar. 9, 1918
1	3/0 Alum.	10 B.&S. C.C. Steel	1/4" Gal. Steel	Thom 2041	Nov. 25, 1912	Mar. 13, 1913
1	6 Copper.	.....	1/4" Gal. Steel	C.P. 105	Dec. 22, 1919	Jan. 4, 1920

at Distributing Stations

2	2 Alum.	10 B.&S. C.C. Steel	1/4" Gal. Steel	Thom 2041	Feb. 24, 1911	July 10, 1911
1	2 Alum.	10 B.&S. C.C. Steel	1/4" Gal. Steel	Thom 2041	Nov. 1, 1913	Nov. 24, 1913

at Junctions

2	2 Alum.	10 B.&S. C.C. Steel	1/4" Gal. Steel	Thom 2041	Feb. 24, 1911	July 10, 1911
2	2 Alum.	10 B.&S. C.C. Steel	1/4" Gal. Steel	Thom 2041	Feb. 24, 1911	July 10, 1911
2	2 Alum.	10 B.&S. C.C. Steel	1/4" Gal. Steel	Thom 2041	Feb. 15, 1911	May 6, 1911
2	2 Alum.	10 B.&S. C.C. Steel	1/4" Gal. Steel	Thom 2041	Feb. 15, 1911	May 6, 1911
1	6 Copper.	.....	6 BWG G. Iron	.....	.....	.....
2	2 Alum.	10 B.&S. C.C. Steel	1/4" Gal. Steel	Thom 2041	Feb. 15, 1911	May 6, 1911
1	3/0 Alum.	10 B.&S. C.C. Steel	1/4" Gal. Steel	Thom 2041	Nov. 25, 1912	Mar. 13, 1913
2	1-2S R. Alum.	.....	.....	.....	.....	.....
2	1-2 Alum.	8 B.&S. C.C. Steel	1/4" Gal. Steel	Thom 2041	April 26, 1911	Feb. 29, 1912
2	2 Alum.	8 B.&S. C.C. Steel	1/4" Gal. Steel	Thom 2041	April 19, 1911	July 24, 1911
1	6 Copper.	.....	6 BWG G. Iron	C.P. 105	Feb. 2, 1918	Mar. 9, 1918

DESCRIPTION
NIAGARA SYSTEM

Lines Terminating								
New Section Number	Old Section No.	From	To	Aver. height of Poles	Aver. Span	Miles	No. of Poles	Volt- age
N.	L.T.			Feet	Feet			
1462 x 1	84	Jct. Pole No. 41.....	Chatham Mun. Sta....	40	120	1.11	59	26,400
1432 x 3	115	Tilbury Dist. Sta.....	Comber.....	30	132	7.26	306	4,000
1435 x 6	122	Ridgetown Dist. Stat..	Highgate.....	30	120	6.18	10	4,000
1443 x 14	137	Petrolia Dist. Stat....	Wyoming.....	25	132	7.92	26	4,000
1477 x 17	135	Jct. Pole No. 2304....	Sarnia Mun. Stat....	35	125	7.73	333	26,400
1438 x 19	212	Bothwell Dist. Sta....	Newbury.....	30	160	5.93	210	4,000
1419 x 20	213	Newbury.....	Glencoe.....	30	160	5.89	199	4,000
1419 x 21	.....	Newbury.....	Wardsville.....	30	160	2.07	72	2,300

Lines Terminating								
1462 x 32	101	Jct. Pole No. 41.....	Tilbury D.S.....	35	132	17.54	84	26,400
1468 x 34	126	Jct. Pole No. 69.....	Blenheim D.S.....	35	132	9.52	388	26,400
1466 x 35	127	Jct. Pole No. 783.....	Ridgetown D.S.....	35	132	.43	20	26,400
1467 x 37	123	Jct. Pole No. 676.....	Thamesville D.S.....	35	132	.09	6	26,400
1467 x 38	124	Jct. Pole No. 676.....	Bothwell D.S.....	35	132	9.83	407	26,400
1469 x 39	104	Jct. Pole No. 520.....	Wallaceburg D.S.....	40	120	8.50	385	26,400
1470 x 40	105	Jct. Pole No. 795.....	Dresden D.S.....	40	132	.68	33	26,400
1471 x 41	172	Jct. Pole No. 1445A...	Oil Springs D.S.....	35	132	1.42	63	26,400
1471 x 42	173	Jct. Pole No. 1445A...	Brigden D.S.....	35	132	8.88	360	26,400
1471 x 43	131	Jct. Pole No. 1445A...	Petrolia D.S.....	35	125	6.77	297	26,400
1476 x 45	145	Jct. Pole No. 2336....	Forest D.S.....	35	132	10.90	444	26,400
1476 x 46	157	Jct. Pole No. 2336....	Watford D.S.....	35	132	10.84	443	26,400

Lines Terminating								
14 x 1462	84	Kent H.T. Sta.....	Jct. Pole No. 41.....	40	120	.82	41	26,400
1468 x 65	123	Jct. Pole No. 68.....	Jct. Pole No. 470.....	35	132	9.74	402	26,400
1465 x 66	127	Jct. Pole No. 470.....	Jct. Pole No. 783.....	35	132	7.52	313	26,400
1465 x 67	123	Jct. Pole No. 470.....	Jct. Pole No. 676.....	35	132	4.78	206	26,400
14 x 1468	102	Kent H.T. Stat.....	Jct. Pole No. 68.....	40	120	1.48	68	26,400
1468 x 69	103	Jct. Pole No. 68.....	Jct. Pole No. 520.....	40	120	9.98	452	26,400
1469 x 70	105	Jct. Pole No. 520.....	Jct. Pole No. 795.....	40	132	6.71	275	26,400
1470 x 71	131	Jct. Pole No. 795.....	Jct. Pole No. 1445A...	35	125	15.05	651	26,400
1475 x 74	145	Jct. Pole No. 1962....	Jct. Pole No. 2058....	35	132	2.35	96	26,400
1443 x 75	132	Petrolia D.S.....	Jct. Pole No. 1962....	40	125	4.89	219	26,400
1474 x 76	145	Jct. Pole No. 2058....	Jct. Pole No. 2336....	35	132	6.85	278	26,400
1475 x 77	133	Jct. Pole No. 1962....	Jct. Pole No. 2304....	35	125	7.92	342	26,400

DESCRIPTION
NIAGARA SYSTEM

Lines Terminating								
N.	L.T.							
1562 x 1	82	Jct. Pole No. 55.....	Windsor Mun. Stat....	45	120	2.27	103	26,400
1562 x 2	83	Jct. Pole No. 55.....	Walkerville Mun. Sta...	40	120	1.30	62	26,400

Lines Terminating								
15 x 1533	165	Essex H. T. Station ...	Can. Salt Co. D.S.....	40	132	8.10	351	26,400

Lines Terminating								
15 x 1562	81	Essex H. T. Sta.....	Jct. Pole No. 55.....	45	120	1.10	55	26,400

OF LINES

KENT DISTRICT 14

at Customers

No. of Circuits	Power Cable B. & S. Gauge	Telephone Wire B. & S. & B.W.G Gauge	Ground Cable	Power Ins. No.	Work Commenced	In Operation
2	2/0 Alum.	10 B.&S. C.C. Steel	1/4" Gal. Steel	C.P. 102	Oct. 21, 1914	Feb. 1, 1915
1	2 S.R. Alum.	.....	1/4" " "	O.B. 9403	Jan. 14, 1915	April 20, 1915
1	6 M.H.D. Copper	.....	6 BWG G.Iron	C.P. 259	Oct. 3, 1916	Nov. 6, 1916
1	6 M.H.D. Copper	.....	" "	" "	Sept. 1, 1915	Oct. 4, 1916
2	3/0 Alum.	9 B.W.G. Gal. Iron	1/4" Gal. Steel	O.B. 11622	May 9, 1916	Nov. 10, 1916
1	2 S.R. Alum.	.....	9/32" G. Steel	C.P. 105	Jan. 6, 1920	Aug. 13, 1920
1	2 S.R. Alum.	.....	" "	" "	Feb. 2, 1920	Aug. 13, 1920
1	6 Bare Copper	.....	.....	" "	April 15, 1921	June 15, 1921

at Distributing Stations

1	2 S.R. Alum.	10 B.&S. C.C. Steel	1/4" Gal. Steel	C.P. 133	Jan. 13, 1915	Mar. 3, 1915
1	2 S.R. Alum.	9 B.W.G. Gal. Iron	1/4" " "	" "	July 2, 1915	Oct. 20, 1915
1	2 S.R. Alum.	" " "	1/4" " "	" "	June 24, 1915	Nov. 24, 1915
1	1/0 Alum.	" " "	1/4" " "	" "	May 18, 1915	Sept. 14, 1915
1	2 S.R. Alum.	" " "	1/4" " "	" "	June 26, 1915	Aug. 17, 1915
2	1-1/0 Alum.	10 B.&S. H.D. Cop.	1/4" Gal. Steel	C.P. 133	Nov. 6, 1914	Feb. 3, 1915
2	1-3/0 Alum.	10 B.&S. H.D. Cop.	1/4" " "	" "	Nov. 3, 1914	Mar. 30, 1915
1	3/0 Alum.	9 B.W.G. Gal. Iron	1/4" " "	O.B. 11622	July 20, 1917	Dec. 5, 1917
1	6 B.W.G. Gal. Iron	" " "	1/4" " "	C.P. 889	Aug. 1, 1917	Dec. 6, 1917
2	3/0 Alum.	" " "	1/4" " "	O.B. 11622	Aug. 30, 1915	April 6, 1916
1	6 B.W.G. Gal. Iron	" " "	6 BWG G. Iron	C.P. 889	June 26, 1915	Feb. 7, 1917
1	6 B.W.G. Gal. Iron	" " "	1/4" Gal. Iron	C.P. 889	June 9, 1917	Aug. 10, 1917

at Junctions

2	2/0 Alum.	10 B.&S. C.C. Steel	1/4" Gal. Steel	C.P. 102	Oct. 21, 1914	Feb. 1, 1915
1	1/0 Alum.	9 B.W.G. Gal. Iron	1/4" " "	C.P. 133	May 18, 1915	Sept. 14, 1915
1	2 S.R. Alum.	" " "	1/4" " "	" "	June 24, 1915	Nov. 24, 1915
1	1/0 Alum.	" " "	1/4" " "	" "	May 18, 1915	Sept. 14, 1915
3	2-3/0 Alum.	10 B.&S. H.D. Cop.	1/4" Gal. Steel	O.B. 11622	Oct. 28, 1914	Feb. 3, 1915
2	1-1/0 Alum.	" " "	1/4" " "	C.P. 133	Oct. 30, 1914	Feb. 3, 1915
2	3/0 Alum.	" " "	1/4" " "	" "	Nov. 3, 1914	Mar. 30, 1915
2	3/0 Alum.	9 B.W.G. Gal. Iron	1/4" " "	O.B. 11622	Aug. 30, 1915	April 6, 1916
1	6 B.W.G. G. Iron.	" " "	6 BWG G. Iron	C.P. 889	June 26, 1915	Feb. 7, 1917
2	3/0 Alum.	9 " " "	1/4" Gal. Steel	O.B. 11622	Mar. 1, 1916	Nov. 10, 1916
1	6 B.W.G. G. Iron.	9 " " "	6 BWG G. Iron	C.P. 889	June 26, 1915	Feb. 7, 1917
2	3/0 Alum.	9 " " "	1/4" Gal. Steel	O.B. 11622	April 6, 1916	Nov. 10, 1916

OF LINES

ESSEX DISTRICT 15

at Customers

2	3/0 Alum.	10 B.&S. C.C. Steel	1/4" Gal. Steel	C.P. 102	July 31, 1914	Sept. 18, 1914
2	3/0 Alum.	10 B.&S. C.C. Steel	1/4" " "	C.P. 102	June 2, 1914	Sept. 6, 1914

at Distributing Stations

2	1/0 Copper	9 B.W.G. Gal. Iron	1/4" Gal. Steel	C.P. 889	July 10, 1917	Nov. 9, 1917
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at Junctions

4	3/0 Alum.	10 B.&S. C.C. Steel	1/4" Gal. Steel	C.P. 102	July 28, 1914	Sept. 6, 1914
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DESCRIPTION
NIAGARA SYSTEM

Lines Terminating

New Section Number	Old Section No.	From	To	Aver. height of Poles	Aver. Span	Miles	No. of Poles	Vol- tage
1663 x 3	34	Jct. Pole No. 564.....	Weston Mun. Stat.....	Feet 40	Feet 120	1.62	75	13,200
1634 x 5	108	Woodbridge D.S.....	Bolton.....	35	132	12.95	540	13,200
1667 x 7	110B	Jct. Pole No. 33.....	Asylum Brick (not own ed)	.....	.....	.....	.....	.....

Lines Terminating

1666 x 31	155	Jct. Pole No. 122.....	Eotbicoke D.S.....	40	125	.21	10	26,400
1661 x 32	51	Jct. Pole No. 332.....	Mimico D.S.....	40	120	.46	18	13,200
1663 x 34	107	Jct. Pole No. 564.....	Woodbridge D.S.....	35	132	6.44	276	13,200

Lines Terminating

1631 x 61	36	Etobicoke D.S.....	Jct. Pole No. 332.....	45	120	.11	6	13,200
1362x1661	36	Jct. Pole No. 84.....	Jct. Pole No. 332.....	45	120	5.48	250	13,200
1664x63	34	Jct. Pole No. 419.....	Jct. Pole No. 564.....	40	120	3.24	145	13,200
1364x1664	34	Jct. Pole No. 89.....	Jct. Pole No. 419.....	40	120	7.30	330	13,200
16 x 1666	155	York H.T. Stat.....	Jct. Pole No. 122.....	40	125	2.59	122	26,400
1669 x 67	110A	Jct. Pole No. 12.....	Jct. Pole No. 33.....	30	125	.55	21	2,200
1631 x 66	216	Etobicoke D.S.....	Jct. Pole No. 122 (Cable only)	.....	.....	.22	.....	2,200
1632 x 69	110A	Mimico D.S.....	Jct. Pole No. 12.....	30	125	.22	12	2,200

DESCRIPTION
ESSEX COUNTY SYSTEM

Lines Terminating

New Section Number	Old Section No.	From	To	Aver. height of Poles	Aver. Span	Miles	No. of Poles	Vol- tage
J.	L.T.			Feet	Feet			
51 x 1	188	Jct. Pole No. 231.....	Canard River D.S.....	35	160	6.00	190	26,400
52 x 2	190	Jct. Pole No. 642.....	Amherstburg D.S.....	35	160	2.30	78	26,400
52 x 3	191	Jct. Pole No. 642.....	Harrow D.S.....	35	160	12.75	401	26,400
54 x 4	193	Jct. Pole No. 1374.....	Kingsville D.S.....	35	160	.50	7	26,400
55 x 5	195	Jct. Pole No. 1412.....	Leamington D.S.....	35	160	7.50	289	26,400
56 x 6	187	Jct. Pole No. 1605.....	Cottam D.S.....	35	160	.80	22	26,400
56 x 7	197	Jct. Pole No. 1605.....	Essex Dist. Sta.....	35	160	4.70	157	26,400

Lines Terminating

15 x 51	185	Essex H. T. Stat.....	Jct. Pole No. 231.....	.....	.....	5.30	.....	26,400
		Conductors and Cr	oss Arms only carried on	N 15 x	1533 p	oles		
1 x 52	189	Canard River D.S.....	Jct. Pole No. 642.....	35	160	7.25	220	26,400
3 x 54	192	Harrow D.S.....	Jct. Pole No. 1374.....	35	160	9.70	334	26,400
54 x 55	194	Jct. Pole No. 1374.....	Jct. Pole No. 1412.....	35	160	.70	38	26,400
55 x 56	196	Jct. Pole No. 1412.....	Jct. Pole No. 1605.....	35	160	5.20	192	26,400

OF LINES

YORK DISTRICT 16

at Customers

No. of Circuits	Power Cable B. & S. Gauge	Telephone Wire B. & S. & B.W.G Gauge	Ground Cable	Power Ins. No.	Work Commenced	In Operation
2	2 Alum.	8 B.&S. C.C. Steel	1/4" Gal. Steel	Thom 2041	April 19, 1911	July 24, 1911
1	3/0 Alum.	10 B.&S. C.C. Steel	1/4" " "	C.P. 136	Oct. 20, 1914	Jan. 26, 1915
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at Distributing Stations

2	1/0 Copper.	9 B.W.G. Gal. Iron	9/32" G. Steel	O.B. 11622	Feb. 9, 1917	Oct. 10, 1919
1	2 Alum.	8 B.&S. C.C. Steel	1/4" Gal. Steel	Thom 2041	.....	.....
1	1/0 Alum.	10 B.&S. C.C. Steel	1/4" Gal. Steel	C.P. 136	Sept. 25, 1914	Dec. 2, 1914

at Junctions

2	1-2 S.R. Alum.	8 B.&S. C.C. Steel	1/4" Gal. Steel	Thom 2041	April 26, 1911	Feb. 29, 1912
2	1-2 Alum.		1/4" Gal. Steel	Thom 2041	April 26, 1911	Feb. 29, 1912
2	1-2 S.R. Alum.	8 B.&S. C.C. Steel	1/4" Gal. Steel	Thom 2041	April 26, 1911	Feb. 29, 1912
2	1-2 Alum.	8 " "	1/4" " "	Thom 2041	April 19, 1911	July 24, 1911
2	2 Alum.	8 " "	1/4" " "	Thom 2041	April 19, 1911	July 24, 1911
2	2 Alum.	8 " "	1/4" " "	Thom 2041	April 19, 1911	July 24, 1911
2	1/0 Copper	9 B.W.G. Gal. Iron	9/32" G. Steel	O.B. 11622	Feb. 9, 1917	Oct. 10, 1919
1	2/0 Copper.	.....	1/4" Gal. Steel	O.B. 9403	Oct. 24, 1914	Feb. 17, 1915
1	2/0 Copper.	.....	1/4" Gal. Steel	O.B. 9403	Oct. 24, 1914	Feb. 17, 1915
1	2/0 Copper.	.....	1/4" Gal. Steel	O.B. 9403	Oct. 24, 1914	Feb. 17, 1915

OF LINES

SYMBOL "J"

at Distributing Stations

No. of Circuits	Power Cable B. & S. Gauge	Telephone Wire B. & S. & B.W.G Gauge	Ground Cable	Power Ins. No.	Work Commenced	In Operation
1	1/0 Alum.	None	None	8-1/2" x 10"	April, 1914	Nov. 1914
2	1/0 Alum.	.....	.....	Similar	July, 1913	Nov., 1914
1	1/0 Alum.	.....	.....	to O.B.	July, 1913	Nov., 1914
2	1/0 Alum.	.....	.....	No. 9416	July, 1913	Nov., 1914
1	1/0 Alum.	.....	.....	"	May, 1915	Aug., 1915
1	1/0 Alum.	.....	.....	"	Aug., 1915	Oct., 1915
1	1/0 Alum.	.....	.....	"	Aug., 1915	Sept. 1915

at Junctions

1	2 Bare Str'd Cop.	.....	.....	C.P. 889	Sept. 24, 1918	Feb. 1, 1919
1	1/0 Alum.	.....	.....	8-1/2"x10"	May, 1914	Nov., 1914
1	1/0 Alum.	.....	.....	Similar	June, 1913	Nov., 1914
1	1/0 Alum.	.....	.....	to O.B.	July, 1915	Aug., 1915
1	1/0 Alum.	.....	.....	No. 9416	Aug., 1915	Sept., 1915

DESCRIPTION
SEVERN SYSTEM

Lines Terminating

New Section Number	Old Section No.	From	To	Aver. height of Poles	Aver Span	Miles	No. of Poles	Vol- tage
S	S.L.			Feet	Feet			
67 x 1	16	Jct. Pole No. 431.....	Midland D.S.....	40	100	5.30	272	22,000
1 x 2	17	Midland D.S.....	Penetang D.S.....	40	120	3.03	143	22,000
72 x 4	22	Jct. Pole No. 1590.....	Barrie D.S.....	40	120	1.57	64	22,000
60 x 5	9	Jct. Pole No. 1786.....	Collingwood D.S.....	40	120	12.04	525	22,000
56 x 6	2	Jct. Pole No. 193.....	Coldwater D.S.....	40	120	1.16	55	22,000
57 x 7	4	Jct. Pole No. 903.....	Elmvale D.S.....	40	120	.42	19	22,000
20 x 9	23	Big Chute Gen. Sta...	Swift Rapid Gen. Sta...	30	120	7.50	328	22,000
60 x 10	8	Jct. Pole No. 1786.....	Stayner D.S.....	40	120	1.50	69	22,000
69 x 19	13	Jct. Pole No. 188.....	Victoria Harbor D.S...	40	120	1.52	82	22,000
71 x 21	20	Jct. Pole No. 401.....	C.P.R.Elevator D.S....	35	125	1.33	58	22,000
72 x 22	21	J t. Pole No. 1590.....	Camp Borden D.S.....	35	132	14.76	604	22,000
84 x 32	29	Jct. Pole No. 2701.....	Alliston D.S.....	40	125	1.82	86	22,000
83 x 33	32	Jct. Pole No. 2984.....	Beeton D.S.....	40	125	1.76	84	22,000
83 x 34	31	Jct. Pole No. 2984.....	Tottenham D.S.....	40	125	3.61	177	22,000
87 x 35	27	Jct. Pole No. 2282.....	Cookstown D.S.....	40	125	2.24	98	22,000
86 x 36	35	Jct. Pole No. 2021.....	Thornton D.S.....	40	125	1.85	81	22,000
62 x 37	34	Jct. Pole No. 2451.....	Bradford D.S.....	40	125	7.25	319	22,000

Lines Terminating

10 x 1002	10	Stayner D.S.....	Creemore.....	35	120	7.68	347	4,000
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DESCRIPTION
SEVERN SYSTEM

Lines Terminating

New Section Number	Old Section No.	From	To	Aver. height of Poles	Aver Span	Miles	No. of Poles	Vol- tage
S	S.L.			Feet	Feet			
20 x 52	11	Big Chute Gen. Sta....	Waubashene Sw.Sta..	35	120	12.00	504 527	22,000
57 x 54	5	Jct. Pole No. 903.....	Jct. Pole No. 1110.....	40	120	4.57	207	22,000
52 x 56	1	Waubashene Sw. Sta..	Jct. Pole No. 193.....	40	120	3.68	163	22,000
56 x 57	3	Jct. Pole No. 193	Jct. Pole No. 903.....	40	120	15.86	711	22,000
54 x 60	7	Jct. Pole No. 1110	Jct. Pole No. 1786.....	40	120	15.07	676	22,000
4 x 61	24	Barrie D.S.....	Jct. Pole No. 1834.....	40	125	3.88	180	22,000
87 x 62	33	Jct. Pole No. 2282.....	Jct. Pole No. 2451.....	40	125	3.87	169	22,000
71 x 67	19	Jct. Pole No. 401.....	Jct. Pole No. 431.....	35	100	.56	30	22,000
52 x 69	12	Waubashene Sw. Sta..	Jct. Pole No. 188.....	40	100	3.59	188	22,000
69 x 71	14	Jct. Pole No. 188.....	Jct. Pole No. 401.....	40	100	4.03	213	22,000
54 x 72	6	Jct. No. 1110.....	Jct. Pole No. 1590.....	40	120	10.76	480	22,000
84 x 83	30	Jct. Pole No. 2701.....	Jct. Pole No. 2984.....	40	125	6.30	283	22,000
35 x 84	28	Cookstown D.S.....	Jct. Pole No. 2701.....	40	125	7.35	321	22,000
61 x 86	25	Jct. Pole No. 1834.....	Jct. Pole No. 2021.....	40	125	4.28	187	22,000
86 x 87	26	Jct. Pole No. 2021.....	Jct. Pole No. 2282.....	40	125	5.99	261	22,000

OF LINES

SYMBOL "S"

at Stations

No. of Cir- cuits	Power Cable B. & S. Gauge	Telephone Wire B. & S. & B.W.G Gauge	Ground Cable	Power Ins. No.	Work Commenced	In Operation
2	1-2/0 Alum.	1-12 B.W.G. G. Iron	1/4" Gal. Steel	C.P. 889	April 11, 1917	May 22, 1917
2	1-1/0 S.R. Alum.	1-10 B.&S.CC Steel	1/4" Gal. Steel	Pittsburg		
2	2 Std. Copper	10 B.&S. C.C. Steel	1/4" Gal. Steel	C.P. 889	June 7, 1911	July 18, 1911
2	2/0 Alum.	10 B.&S. C.C. Steel	1/4" Gal. Steel	Thom.2111	Nov. 6, 1912	April 6, 1913
2	3/0 Alum.	10 B.&S. C.C. Steel	1/4" Gal. Steel	C.P. 889	Nov. 1, 1912	Feb. 24, 1913
				Thom.2111		
1	2 Alum.	10 B.&S. C.C. Steel	1/4" Gal. Steel	Thom.2111	Sept. 20, 1912	Feb. 24, 1913
1	2 Alum.	10 B.&S. C.C. Steel	1/4" Gal. Steel	Thom.2111	Feb. 1, 1913	May 27, 1913
1	2 S.R. Alum.	10 B.&S. Copper	5/16" Gal. Stl.	O.B.9410		
1	2 Alum.	10 B.&S. C.C. Steel	1/4" Gal. Steel	Thom.2111	Jan. 24, 1913	Feb. 25, 1913
1	2 Alum.	12 BWG. G. Iron	1/4" Gal. Steel	C.P. 188		
				Pittsburg		
2	1/0 Alum.	9 B.W.G.Ga. Iron	1/4" Gal. Steel	O.B. 12547	Feb. 29, 1916	July 24, 1916
1	6 M.H.D. Copper	9 B.W.G.Ga. Iron	6 BWG.Ga.I.	C.P. 136	May 30, 1916	June 29, 1916
1	125000 C.M.S.R.A.	9 B.W.G.Ga. Iron	9/32" Ga. Steel	C.P. 889	Dec. 8, 1917	May 23, 1918
1	5/16" Gal. Steel	9 B.W.G.Ga. Iron	9/32" Ga. Steel	C.P.889	Feb. 28, 1918	July 26, 1918
1	5/16" Gal. Steel	9 B.W.G.Ga. Iron	9/32" Ga. Steel	C.P. 889	Jan. 30, 1918	Sept. 9, 1918
1	125000 CMSR A1	9 B.W.G.Ga. Iron	1/4" Gal. Steel	C.P. 889	Nov. 8, 1917	April 25, 1918
1	5/16" Gal. Steel	9 B.W.G. Ga. Iron	9/32" Ga. Steel	C.P. 889	June 15, 1918	Oct. 16, 1918
1	5/16" Gal. Steel	9 B.W.G. Ga. Iron	9/32" Ga. Steel	C.P. 889	Mar. 19, 1918	Sept. 16, 1918

at Customers

1	1/0 Alum.	1/4" Gal. Steel	P. 2822	Aug. 15, 1914	Oct. 21, 1914
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OF LINES

SYMBOL "S"

at Junctions

No. of Cir- cuits	Power Cable B. & S. Gauge	Telephone Wire B. & S. & B.W.G Gauge	Ground Cable	Power Ins. No.	Work Commenced	In Operation
2	4/0 Alum.	9 B.W.G. Gal. Iron	1/4" Gal. Steel	Thom 2111	.....	1915
	2/0 Alum.	12 B.W.G.Ga. Iron				
2	4/0 Alum.	9 B.W.G. Gal. Iron	1/4" Gal. Steel	Thom 2111	Oct. 20, 1912	Feb. 24, 1913
		10 B.&S. C.C. Steel				
2	4/0 Alum.	9 B.W.G. Gal. Iron	1/4" Gal. Steel	Thom 2111	Sept. 20, 1912	Feb. 24, 1913
		10 B.&S. C.C. Steel				
2	4/0 Alum.	9 B.W.G. Gal. Iron	1/4" Gal. Steel	Thom 2111	Sept. 25, 1912	Feb. 24, 1913
		10 B.&S. C.C. Steel				
2	3/0 Alum.	10 B.&S. C.C. Steel	1/4" Gal. Steel	C.P. 889		
				Thom 2111	Oct. 23, 1912	Feb. 24, 1913
1	125000 C.MSR.A1	9 B.W.G. Ga. Iron	1/4" Gal. Steel	C.P. 889	Sept. 13, 1917	April 25, 1918
1	5/16" Gal. Steel	9 B.W.G. Gal. Iron	9/32" G. Steel	C.P. 889	May 29, 1918	Sept. 16, 1918
2	2/0 Alum.	12 B.W.G. Ga. Iron	.....	Pittsburg	.....	.....
	1/0 S.R. Alum.			O.B. 12547		
2	1/0 S.R. Alum.	12 B.W.G. Ga. Iron	.....	Pittsburg	April 1, 1916	July 24, 1916
	2/0 Alum.			O.B. 12547		
2	2/0 Alum.	12 B.W.G. Ga. Iron	.....	C.P. 133	Mar. 7, 1916	July 24, 1916
	1/0 S.R. Alum.			Pittsburg		
2	2/0 Alum.	10 B.&S.C.C. Steel	1/4" Gal. Steel	Thom 2111	Nov. 6, 1912	April 6, 1913
1	5/16" Gal. Steel	9 B.W.G. Gal. Iron	9/32" G. Steel	C.P. 889	Jan. 2, 1918	July 26, 1918
1	125000 CMSR A1	9 B.W.G. Gal. Iron	1/4" Gal. Steel	C.P. 889	Nov. 16, 1917	May 23, 1918
1	125000 CMSR A1	9 B.W.G. Gal. Iron	1/4" Gal. Steel	C.P. 889	Oct. 6, 1917	April 25, 1918
1	125000 CMSR A1	9 B.W.G. Gal. Iron	1/4" Gal. Steel	C.P. 889	Oct. 20, 1917	April 25, 1918

DESCRIPTION
EUGENIA SYSTEM

Lines Terminating

New Section Number	Old Section No.	From	To	Aver. height of Poles	Aver. Span	Miles	No. of Poles	Vol- tage
E.	E.F.L.			Feet	Feet			
65 x 2	2	Jct. Pole No 1141A....	Owen Sound D.S.....	40	125	5.28	227	22,000
52 x 3	1	Jct. Pole No. 316.....	Chatsworth D.S.....	40	125	15.27	658	22,000
17 x 4	8	Elmwood D.S.....	Chesley D.S.....	40	125	6.07	259	22,000
55 x 5	9	Jct. Pole No. 297.....	Dundalk D.S.....	40	125	11.44	499	22,000
56 x 6	25	Jct. Pole No. 1015.....	Durham Cem. Co. Sta.	Line not in operation				
57 x 7	4	Jct. Pole No. 971.....	Durham D.S.....					
54 x 8	11	Jct. Pole No. 1491.....	Hanover D.S.....	40	125	.76	33	22,000
59 x 9	5	Jct. Pole No. 1326....	Mt. Forest D.S.....	40	125	7.49	336	22,000
5 x 10	10	Dundalk D.S.....	Shelburne D.S.....	40	125	13.12	565	22,000
64 x 11	20	Jct. Pole No. 187.....	Collingwood D.S.....	35	125	20.17	883	22,000
62 x 12	17	Jct. Pole No. 1987.....	Orangeville D.S.....	30	130	.21	13	22,000
63 x 13	6	Jct. Pole No. 1798.....	Grand Valley D.S.....	35	132	8.98	384	22,000
65 x 15	15	Jct. Pole No. 1141A....	Kilsyth, D.S.....	40	125	4.80	206	22,000
54 x 17	8	Jct. Pole No. 1491.....	Elmwood D.S.....	40	125	4.99	214	22,000
55 x 18	4	Dundalk Jct.Pole, 297..	Priceville D.S.....	40	125	5.71	243	22,000
74 x 25	.....	Kinloss Jct. No. 2393..	Kincardine D.S. N2909.	35	132	12.71	517	40,000
74 x 24	.....	Kinloss Jct.No.2393...	Holyrood D.S.No.2616.	35	132	6.20	224	40,000
72 x 22	.....	Wingham Jct. No. 2759	Wingham D.S.No.2929.	35	132	4.11	170	40,000
71 x 21	.....	Teeswater Jct.No.2172.	Teeswater D.S.No.2456.	35	132	7.01	284	40,000
76 x 26	.....	Walkerton Qu'yJ. 1977.	Walkerton Quarry Sta..	35	132	.25	12	40,000

Lines Terminating

1 x 52	1	Eugeni Gen. Sta.....	Jct. Pole No. 316.....	40	125	7.28	316	22,000
58 x 54	7	Jct. Pole No. 964.....	Jct. Pole No. 1491.....	40	125	12.11	527	22,000
1 x 55	3	Eugenia Gen. Sta.....	Jct. Pole No. 297.....	40	125	6.78	297	22,000
57 x 56	5	Jct. Pole No. 971.....	Jct. Pole No. 1015.....	40	125	1.05	44	22,000
58 x 57	4	Jct. Pole No. 964.....	Jct. Pole No. 971.....	40	125	.12	7	22,000
18 x 58	4	Priceville D.S.....	Jct. Pole No. 964.....	40	125	9.97	423	22,000
56 x 59	5	Jct. Pole No. 1015.....	Jct. Pole No. 1326.....	40	125	7.21	311	22,000
10 x 60	17	Shelburne.....	Jct. Pole No. 1380.....	30	130	.49	19	22,000
63 x 62	17	Jct. Pole No. 1798.....	Jct. Pole No. 1987.....	30*	130	4.50	198	22,000
60 x 63	17	Jct. Pole No. 1380.....	Jct. Pole No. 1798.....	30	130	10.20	418	22,000
1 x 64	19	Eugenia Gen. Sta.....	Jct. Pole No. 187.....	35	125	4.04	187	22,000
3 x 65	2	Chatsworth D.S.....	Jct. Pole 1141A.....	40	125	3.92	168	22,000
8 x 70	.....	Hanover D.S.Po. 1526..	Walkerton Jt.P.No.1822	40	132	7.27	297	40,000
76 x 71	.....	Walkerton Quarry.....	Teeswater.....					
				40	132	4.84	195	40,000
21 x 72	.....	Teeswater Sub No. 2455	Wingham Jct. No. 2759	35	132	7.53	303	40,000
71 x 74	.....	Teeswater Jct. No. 2172	Kinloss Jct. No. 2393..	35	132	5.51	222	40,000
70 x 76	.....	Walkerton Jct. No.1822	Walkerton Quarry.....	40	132	3.81	155	40,000
8 x 863	26	Hanover D.S.....	Jct. Pole No. 161.....	30	132	2.73	161	4,000

OF LINES

SYMBOL "E"

at Stations

No. of Circuits	Power Cable. B. & S. Gauge.	Telephone Wire. B. & S. & B.W.G. Gauge.	Ground Cable.	Power Ins. No.	Work Commenced	In Operation
2	3/0 Alum.	9 B.W.G. Gal. Iron	1/4" Gal. Steel	C.P. 133	April 7, 1915	Nov. 18, 1915
2	3/0 Alum.	9 B.W.G. Gal. Iron	1/4" Gal. Steel	C.P. 133	Mar. 17, 1915	Nov. 18, 1915
1	3/0 Alum.	9 B.W.G. Gal. Iron	1/4" Gal. Steel	C.P. 133	Dec. 4, 1915	June 18, 1916
1	1/0 Alum.	9 B.W.G. Gal. Iron	1/4" Galv. Steel	C.P. 133	May 20, 1915	Nov. 18, 1915
2	3/0 Alum.	6 B. & S. S.R. Alum.	1/4" Gal. Steel	C.P. 133	April 13, 1915	Nov. 18, 1915
3	1-1/0 S.R. Alum.	9 B.W.G. Gal. Iron	9 B.W.G. Gal. Iron	9 B.W.G. Gal. Iron	9 B.W.G. Gal. Iron	9 B.W.G. Gal. Iron
	2-3/0 S.R. Alum.	6 B. & S. S.R. Alum.	1/4" Galv. Steel	C.P. 133	Aug. 18, 1916	Sept. 16, 1916
2	1-3/0 Alum.	9 B.W.G. Gal. Iron	1/4" Gal. Steel	C.P. 133	April 26, 1915	Nov. 18, 1915
	1-5/16" Steel	9 B.W.G. Gal. Iron	1/4" Gal. Steel	C.P. 133	June 9, 1915	Nov. 18, 1915
1	1/0 Alum.	9 B.W.G. Gal. Iron	1/4" Gal. Steel	C.P. 889	Aug. 14, 1916	Oct. 6, 1916
1	1/0 Copper	9 B.W.G. Gal. Iron	1/4" Gal. Steel	C.P. 889		
1	6 Copper	10 B.W.G. Ga. Iron	.....	C.P. 889 & special	Built by P.R. Devel. Co.	
1	6 M.H.D. Copper	9 B.W.G. Gal. Iron	1/4" Gal. Steel	C.P. 889	July 21, 1916	Dec. 1, 1916
1	6 B.W.G. Gal. Iron	9 B.W.G. Gal. Iron	1/4" Gal. Steel	C.P. 889	Nov. 7, 1916	Jan. 1, 1918
1	3/0 Alum.	9 B.W.G. Gal. Iron	1/4" Gal. Steel	C.P. 133	Dec. 4, 1915	June 18, 1916
2	3/0 Alum.	6 B. & S. S.R. Alum.	1/4" Gal. Steel	C.P. 133	April 13, 1915	Nov. 18, 1915
1	1/0 S.R. Alum.	6 S.R. Alum.	5/16" Ga. Steel	C.P. 1162	Aug. 11, 1920	Jan. 11, 1921
1	5/16" Gal. Steel	9 B.W.G. Gal. Iron	5/16" Ga. Steel	C.P. 1162	Sept. 13, 1920	Jan. 11, 1921
1	1/0 S.R. Alum.	6 S.R. Alum.	5/16" Ga. Steel	C.P. 1162	Oct. 14, 1920	Dec. 21, 1920
1	1/0 S.R. Alum.	6 S.R. Alum.	5/16" Ga. Steel	C.P. 1162	May 27, 1920	Dec. 19, 1920
1	2 S.R. Alum.	9 B.W.G. Gal. Iron	4 x 12 Ga. Steel	C.P. 1162	Dec. 1, 1921	Feb. 2, 1921

at Junctions

2	3/0 Alum.	9 B.W.G. Gal. Iron	1/4" Gal. Steel	C.P. 133	Mar. 17, 1915	Nov. 18, 1915
2	1-3/0 S.R. Alum.	6 B. & S. S.R. Alum.	1/4" Gal. Steel	C.P. 133	Oct. 19, 1915	June 18, 1916
	1-3/0 Alum.	9 B.W.G. Gal. Iron	1/4" Gal. Steel	C.P. 133	April 10, 1915	Nov. 18, 1915
2	3/0 Alum.	9 B.W.G. Gal. Iron	1/4" Gal. Steel	C.P. 133	April 10, 1915	Nov. 18, 1915
2	1-3/0 Alum.	9 B.W.G. Gal. Iron	1/4" Gal. Steel	C.P. 133	April 26, 1915	Nov. 18, 1915
	1-5/16" Steel	9 B.W.G. Gal. Iron	1/4" Gal. Steel	C.P. 133	April 13, 1915	Nov. 18, 1915
2	3/0 Alum.	6 B. & S. S.R. Alum.	1/4" Gal. Steel	C.P. 133	April 13, 1915	Nov. 18, 1915
2	3/0 Alum.	6 B. & S. S.R. Alum.	1/4" Gal. Steel	C.P. 133	April 13, 1915	Nov. 18, 1915
2	1-3/0 Alum.	9 B.W.G. Gal. Iron	1/4" Gal. Steel	C.P. 133	April 26, 1915	Nov. 18, 1915
	1-5/16" Steel	10 B.W.G. Ga. Iron	.....	C.P. 889 & Special	Built by P. R. Devel. Co.	
1	6 Copper	10 B.W.G. Ga. Iron	.....	C.P. 889 & Special	Built by P. R. Devel. Co.	
1	6 Copper	10 B.W.G. Ga. Iron	.....	C.P. 889 & Special	Built by P. R. Devel. Co.	
1	1/0 Copper	9 B.W.G. Gal. Iron	1/4" Gal. Steel	C.P. 889	Aug. 21, 1916	Oct. 6, 1916
2	3/0 Alum.	9 B.W.G. Gal. Iron	1/4" Gal. Steel	C.P. 133	April 7, 1915	Nov. 18, 1915
1	1/0 S.R. Alum.	6 S.R. Alum.	5/16" G. Steel	C.P. 889	May 22, 1920	Dec. 19, 1920
1	1/0 S.R. Alum.	6 S.R. Alum.	5/16" Ga. Steel	C.P. 889	June 8, 1920	Dec. 1920
				C.P. 1162		
1	1/0 S.R. Alum.	6 S.R. Alum.	5/16" Ga. Steel	C.P. 1162	July 9, 1920	Dec. 21, 1920
1	1/0 S.R. Alum.	6 S.R. Alum.	5/16" Ga. Steel	C.P. 1162	July 30, 1920	Jan. 11, 1921
1	1/0 S.R. Alum.	6 S.R. Alum.	5/16" Ga. Steel	C.P. 889	June 8, 1920	Dec. 1920
				C.P. 1162		
1	3/0 Alum.	.....	6B WG.G. Iron	C.P. 105	Nov. 1, 1917	Dec. 12, 1917

DESCRIPTION
EUGENIA SYSTEM

Lines Terminating

New Section Number	Old Section No.	From	To	Aver. height of Poles	Aver. Span	Miles	No. of Poles	Vol- tage
E.	E.F.L.			Feet	Feet			
1 x 101	12	Eugenia Gen. Sta.....	Markdale.....			7.28		4,000
1 x 102	13	Eugenia Gen. Sta.....	Flesherton.....			6.78		4,000
7 x 702	14	Durham D.S.....	Holstein.....	30	130	2.63	96	4,000
863 x 2	28	Jct. Pole No. 161.....	Neustadt.....	30	132	2.36	96	4,000
863 x 3	27	Jct. Pole No. 161.....	Carlsruhe.....	30	132	1.22	57	4,000
10 x 1002	18	Shelburne D.S.....	Horning's Mills.....	30	130	5.53	234	4,000
12 x 1202	21	Orangeville D.S.....	Alton Foundry.....	30	132	5.75	249	4,000
13 x 1302	22	Grand Valley D.S.....	Arthur.....	30	120	12.36	531	4,000
15 x 1501	16	Kilsyth D.S.....	Tara.....	40	125	6.80	291	4,000
24 x 2402		Holyrood D.S.No. 1...	Lucknow No. 172.....	30	150	4.76	170	4,000
24 x 2403		Holyrood D.S.No. 1...	Ripley No. 218.....	30	150	6.14	218	4,000

DESCRIPTION
WASDELLS SYSTEM

H. T.

New Section Number	Old Section No.	From	To	Aver. height of Poles	Aver. Span	Miles	No. of Poles	Vol- tage
W.	W.L.			Feet	Feet			
52 x 2	2	Jct. Pole No. 1203.....	Beaverton D.S.....	40	120	1.49	70	22,000
53 x 3	3	Jct. Pole No. 1559.....	Cannington D.S.....	40	120	1.86	86	22,000
54 x 4	8	Jct. Pole No. 183.....	Severn Sys. (Longford)	35	132	6.41	267	22,000
56 x 6		Jct. Pole No. 1011.....	Kirkfield D.S.....	35	150	11.34	412	22,000
54 x 51	1	Jct. Pole No. 183.....	Jct. Pole No. 832.....	40	120	14.34	649	22,000
56 x 52	1	Jct. Pole No. 1011.....	Jct. Pole No. 1203.....	40	120	4.32	193	22,000
57 x 53	3	Jct. Pole No. 1408.....	Jct. Pole No. 1559.....	40	120	3.34	151	22,000
1 x 54	1 & 1A	Waddell's Falls, Gen. Sta.	Jct. Pole No. 183.....	40	120	3.94	183	22,000
51 x 56	1	Jct. Pole No. 832.....	Jct. Pole No. 1011.....	40	120	3.93	178	22,000
52 x 57	3	Jct. Pole No. 1203.....	Jct. Pole No. 1408.....	40	120	4.47	205	22,000

L. T.

2 x 202	4	Beaverton D.S.....	Gamebridge.....			5.81		4,000
202 x 3	5	Gamebridge.....	Brechin.....			3.93		4,000
3 x 302	6	Cannington D.S.....	Woodville.....	30	120	5.15	148	4,000
3 x 303	7	Cannington, D.S.....	Sunderland.....	30	120	7.40	335	4,000
6 x 602		Kirkfield D.S.....	Kirkfield.....			1.01		4,000

DESCRIPTION
MUSKOKA SYSTEM

Lines

New Section Number	Old Section No.	From	To	Aver. height of Poles	Aver. Span	Miles	No. of Poles	Vol- tage
M.	M.L.			Feet	Feet			
1 x 2	1	South Falls Gen. Sta.	Huntsville Sta.....	35	132	26.32	1,141	22,000

OF LINES

SYMBOL "E"—Continued

at Customers

No. of Circuits	Power Cable B. & S. Gauge	Telephone Wire B. & S. & B.W.G Gauge	Ground Cable	Power Ins. No.	Work Commenced	In Operation
1	2 S.R. Alum.			O.B. 9403	Dec. 28, 1915	Feb. 8, 1916
1	2 S.R. Alum.			O.B. 9403	June 4, 1915	Nov. 18, 1915
1	2 S.R. Alum.		1/4" Gal. Steel	O.B. 9403	Dec. 10, 1915	April 3, 1916
1	3/0 Alum.		6 BWG G Iron	C.P. 105	Oct. 10, 1918	Nov. 17, 1918
1	6 M.H.D. Copper		6 BWGG. Iron	C.P. 505	Sept. 26, 1918	Nov. 17, 1918
1	6 M.H.D. Copper		10 BWG G Ir.		Built by P. R. Devel Co.	
1	4 M.H.D. Copper		6 BWG G Iron	O.B. 9403	Oct. 17, 1916	Nov. 27, 1916
1	4 M.H.D. Copper		6 BWG G Iron	O.B. 9403	Oct. 30, 1916	Feb. 19, 1917
1	6 M.H.D. Copper	9 BWG G Iron	1/4" Gal. Steel	C.P. 259	Oct. 12, 1916	Jan. 1, 1918
1	2 S.R. Alum.			Brown		
			1/4" Gal. Steel	C.P. 505	Sept. 22, 1920	Jan. 11, 1921
1	2 S.R. Alum.		1/4" Gal. Steel	C.P. 505	Nov. 5, 1920	Jan. 12, 1921

OF LINES

SYMBOL "W"

Lines

No. of Circuits	Power Cable B. & S. Gauge	Telephone Wire B. & S. & B.W.G Gauge	Ground Cable	Power Ins. No.	Work Commenced	In Operation
1	1/4" Gal. Steel	10 B.&S. C.C. Steel	1/4" Gal. Steel	C.P. 136	Mar. 30, 1914	Sept. 28, 1914
1	1/4" Gal. Steel	10 B.&S. C.C. Steel	1/4" Gal. Steel	C.P. 136	Feb. 18, 1914	Sept. 28, 1914
1	1/0 Alum.	9 B.W.G. Gal. Iron	1/4" Gal. Steel	C.P. 133	Feb. 17, 1916	June 4, 1916
1	2 S.R. Alum.	6 S.R. Alum.	9/32" G. Steel	O.B. 12546	Feb. 10, 1920	April 22, 1920
1	1/0 S.R. Alum.	10 B.&S. C.C. Steel	1/4" Gal Steel	C.P. 136	Jan. 17, 1914	Sept. 28, 1914
				C.P. 133		
1	1/0 S.R. Alum.	10 B.&S. C.C. Steel	1/4" Gal. Steel	C.P. 136	Jan. 17, 1914	Sept. 28, 1914
				C.P. 133		
1	1/4" Gal. Steel	10 B.&S. C.C. Steel	1/4" Gal. Steel	C.P. 136	Feb. 18, 1914	Sept. 28, 1914
2	1/0 Alum.	10 B.&S. C.C. Steel	1/4" Gal. Steel	C.P. 136	Jan. 17, 1914	Sept. 28, 1914
	1/0 S.R. Alum.			C.P. 133		
1	1/0 S.R. Alum.	10 B.&S. C.C. Steel	1/4" Gal. Steel	C.P. 136	Jan. 17, 1914	Sept. 28, 1914
				C.P. 133		
1	2 S.R. Alum.	10 B.&S. C.C. Steel	1/4" Gal Steel.	C.P. 136	Feb. 18, 1914	Sept. 28, 1914

Lines

1	1/0 Alum.			P. 2822	May 2, 1914	Oct. 6, 1914
1	1/0 Alum.			P. 2822	July 25, 1914	Oct. 6, 1914
1	1/0 Alum.		1/4" Gal. Steel	P. 2822	May 19, 1914	Oct. 19, 1914
1	1/0 Alum.		1/4" Gal. Steel	P. 2822	June 1, 1914	Oct. 19, 1914
1	2 S.R. Alum....			C.P. 505	April 19, 1920	June 18, 1920

OF LINES

SYMBOL "M"

No. of Circuits	Power Cable B. & S. Gauge	Telephone Wire B. & S. & B.W.G Gauge	Ground Cable	Power Ins. No.	Work Commenced	In Operation
1	2 S.R. Alum	9 B.W.G. Gal. Iron	1/4" Gal. Steel	O.B. 12547	Aug. 6, 1915	Aug. 15, 1916

DESCRIPTION
ST. LAWRENCE SYSTEM

Lines Terminating

New Section Number	Old Section No.	From	To	Aver. height of Poles	Aver. Span	Miles	No. of Poles	Vol- tage
L.	St. L.			Feet	Feet			
1462 x 2		Avonmore Jct.	Avonmore.					
1463 x 3		Domville Jct. 4000V...	Maxville.	45	325	5.17	94	4,000
			44,000 Const. L67 x 1	7 trans	ferred			
6 x 601		Toronto Paper Co. Sta.	Toronto Paper Co.					550
7 x 701	6	Morrisburg Met. Sta...	Williamsburg.			6.57		4,000
13 x 1302		Martintown D.S.	Lancaster No. 399.	30	160	11.59	399	4,000

Lines Terminating

11 x 1		Mille Roche.	Cornwall Sta.					
		(Tel. line only)						
52 x 2	1	Jct. Pole No. 363½ at	Prescott D.S.	40	120	15.33	721	26,400
		Iroquois						
2 x 3	5	Prescott D.S.	Brockville D.S.	40	120	14.08	630	26,400
7 x 4	2	Williamsburg, D.S.	Winchester D.S. No. 746	40	120	9.78	449	26,400
		No. 298						
4 x 5	3	Winchester D.S.	Chesterville D.S. No. 1051	40	120	6.71	303	26,400
68 x 6	12	Cornwall P. & P. Co...	Toronto Paper Co. Sta.	40	176	.11	5	46,000
		Jct. Pole No. 85...						
54 x 7	2	Jct. Pole No. 94.	Williamsburg, D.S.	40	120	4.61	204	26,400
		No. 298						
66 x 13		Grants Corners.	Martintown Sub.	45	325	5.55	88	44,000
		Jct. 143	No. 231					
13 x 14		Martintown DS No. 231	Apple Hill DS No. 322..	45	325	5.36	91	44,000
67 x 15		Dom. Jct. (44000V.)...	Alexandria D.S.	45	325	8.91	161	44,000
		No. 349	No. 510					
68 x 18		Cornwall P. & P. Co...	Cornwall P. & P. Co...	50	132	1.66	73	44,000
		Jct. No. 85	Sta.					

Lines Terminating

1 x 51	8	Cornwall Sta.	Jct. Pole No. 391.	40	176	12.63	391	46,000
53 x 52	1	J. Po. No. 1 at M'rrsb'g.	J. Po. No. 363½ at I'qu's	40	120	7.63	363	26,400
54 x 53	2	Jct. Pole No. 94.	J. Po. No. 1 at Morrisburg	40	120	1.96	94	26,400
51 x 54	8	Jct. Pole No. 391.	Jct. Pole No. 94.	40	176	12.76	340	46,000
14 x 1462		Apple Hill D.S.	Avonmore Jct. No. 18..	30		1.04	18	4,000
			carried on Po. L14 x 67					
1462 x 63		Avonmore Jct. No. 18..	Domville Jct. No. 26.	30		.58	8	4,000
			(4000V) carr'd on poles	L14x 67				
1 x 66		Cornwall Sta.	Grants Corners, Jct. 143	45	325	8.12	143	44,000
14 x 67		Apple Hill D.S. No. 322	Dom. J. (44000V) No. 349	45	325	1.62	27	44,000
1 x 68	12	Cornwall Station.	Cornwall P. & P. Co...	40	176	2.46	85	46,000
			Jct. No. 85					

OF LINES

SYMBOL "L"

at Customers

No. of Circuits	Power Cable B. & S. Gauge	Telephone Wire B. & S. & B.W.G Gauge	Ground Cable	Power Ins. No.	Work Commenced	In Operation
1	2 S.R.. Aluminum		5/16" Ga. Steel	C.P. 725	Oct. 8, 1920	Feb. 22, 1921
1	6 M.H.D. Copper			C.P. 105	Feb. 22, 1915	Mar. 20, 1915
1	2 S.R. Alum.		1/4" Gal. Steel	C.P. 105	Nov. 4, 1920	May 25, 1921

at Stations

1	3/0 Alum.	10 B.&S. C.C. Steel	1/4" Gal. Steel	Thom 2111	Oct. 29, 1912	Oct. 23, 1913
1	3/0 Alum.	10 B.&S. C.C. Steel	1/4" Gal. Steel	C.P. 133	Oct. 16, 1914	April 4, 1915
1	5/16" Gal. Steel	10 B.&S. C.C. Steel	1/4" Gal. Steel	Thom 2111	June 4, 1912	Dec. 18, 1913
1	3/0 Alum.	10 B.&S. C.C. Steel	1/4" Gal. Steel	Thom 2111	Sept. 6, 1913	Feb. 7, 1914
1	336000 CMSR Al.	9 B.W.G. Ga. Iron	9/32" G. Steel	{ C.P. 1159 JD 2 units JD 3 units	Sept. 24, 1918	June 19, 1919
1	5/16" Gal. Steel	10 B.&S. C.C. Steel	1/4" Gal. Steel	Thom 2111	June 4, 1912	Dec. 18, 1913
1	2 S.R. Alum.	3 x 12 Gal. Steel	9/32" Ga. Steel	{ JD 2 units JD 3 units	June 4, 1920	Jan. 18, 1921
1	2 S.R. Alum.	3 x 12 Gal. Steel	9/32" Ga. Steel	{ JD 2 units JD 3 units	July 15, 1920	Jan. 18, 1921
1	2 S.R. Alum.	3 x 12 Gal. Steel	9/32" Ga. Steel	{ JD 2 units JD 3 units	Aug. 12, 1920	Jan. 18, 1921
1	6/0 S.R. Alum.	6 S.R. Alum.	9/32" Ga. Steel	{ C.P. 1159 JD 2 units JD 3 units	Jan. 13, 1921	May 26, 1921

at Junctions

1	3/0 Alum.	9 B. W.G. Gal. Iron	9/32" Ga. Steel	{ C.P. 1159 JD 2 units JD 3 units	May 7, 1918	April 30, 1919
1	3/0 Alum.	10 B.&S. C.C. Steel	1/4" Gal. Steel	Thom 2111	Oct. 29, 1912	Oct. 23, 1913
1	5/16" Gal. Steel	10 B.&S. C.C. Steel	1/4" Gal. Steel	Thom 2111	June 4, 1912	Dec. 18, 1913
1	3/0 Alum.	9 B.W.G. Iron	9/32" Gal. Steel	{ C.P. 1159 JD 2 units JD 3 units	May 7, 1918	April 30, 1919
1	2 S.R. Alum.			C.P. 105.	Jan. 15, 1921	Feb. 22, 1921
1	2 S.R. Alum.			C.P. 105	Jan. 30, 1921	Feb. 22, 1921
1	2 S.R. Alum.	3 x 12 Gal. Steel	9/32" G. Steel	{ JD 2 units JD 3 units	June 2, 1920	Jan. 18, 1921
1	2 S.R. Alum.	3 x 12 Gal. Steel	9/32" G. Steel	{ JD 2 units JD 3 units	Aug. 11, 1920	Jan. 18, 1921
1	336000 CMSR Al.	9 B.W.G. Gal. Iron	9/32" Ga. Steel	{ C.P. 1159 JD 2 units JD 3 units	Sept. 24, 1918	June 19, 1919

DESCRIPTION
RIDEAU SYSTEM

New Section Number	Old Section No.	From	To	Aver. height of Poles	Aver. Span	Miles	No. of Poles	Vol- tage
H 8 x 2	R.L. 1	Balderson Sta.....	Perth Trans. Sta.....	Feet 35	Feet 132	4.95	201	26,400
55 x 3	2	Jct. Pole No. 1328.....	Smith's Falls Sta.....	35	132	5.64	233	26,400
55 x 5	4	Jct. Pole No. 1328.....	Carleton Place Sta....	30	150	14.24	523	26,400
3 x 7	3	Smith's Falls Sta.....	Merrickville Gen. Sta..	35	132	12.30	517	26,400
1 x 8	1	High Falls Gen. Sta....	Balderson Sta.....	35	132	16.08	666	26,400
7 x 9	.....	Merrickville Gen. Sta..	Kemptville Sta.....	30	250	12.13	257	26,400
2 x 55	2	Perth Trans. Sta.....	Jct. Pole No. 1328.....	35	132	11.31	459	26,400
8 x 801	.....	Balderson Sta.....	Lanark.....	30	160	4.97	171	2,300

DESCRIPTION
THUNDER BAY SYSTEM

P. 2(P) x 301	.....	Twin Cities T.S.....	Kaministiquia Power Co.	Feet 45	Feet 125	.70	.....	22,000
2(P) x 261	.....	Twin Cities T.S. (Proposed)	Lyon Ave. Jct.....	45	125	1.64	.....	22,000
261 x 231	.....	Lyon Ave. Jct.....	Port Arthur Sub.....	45	125	2.18	.....	22,000
2(T) x 231	.....	Port Arthur (Temp.)	Port Arthur Sub.....	45	125	5.04	.....	22,000
1 x 50	.....	Nipigon Gen. Stat.....	Sprucewood.....	45	330	17.33	282	110,000
50 x 51	.....	Sprucewood Jct.....	Everard Switch.....	.....	.....	1.90	31	110,000
51 x 55	.....	Everard	Hurkett Switch.....	45	330	6.49	103	110,000
55 x 52	.....	Hurkett	Pearl Switch.....	.....	.....	15.73	253	110,000
52 x 53	.....	Pearl.....	Sibley Switch.....	45	330	13.82	209	110,000
53 x 54	.....	Sibley.....	Bear Point Jct.....	45	330	14.74	239	110,000
54 x 2 (T)	.....	Bear Point Jct.....	Pt. Arthur (Temp) T.S.	45	330	.35	7	110,000
1 x 56	.....	Nipigon Gen. Stat.....	Nipigon Jct.....	R/W	cleared only	.....	.....	.....
57 x 50	.....	Nipigon Jct.....	Sprucewood Jct.....	45	330	6.43	106	110,000
56 x 6	.....	Nipigon Jct.....	Nipigon Fibre & Paper.	45	330	.24	5	110,000
54 x 2 (P)	.....	Bear Point Jct.....	Twin Cities T.S. (Proposed)	No work done on this section				
50 x 6	.....	Sprucewood Jct.....	Nip. Fibre & Paper Co.	P50x56, P1x56, and P56x6 are grouped				
50 x 2(T)	.....	Sprucewood Jct.....	Port Arthur (T)	P50x51, P51x55, P55x52, P52x53, P53x54 and				

DESCRIPTION
NIPISSING SYSTEM

Z	.....	Nipissing Power House	Nipissing Village.....	feet 28	feet 126	2.50	128	2,200
1 x 101	.....	Nipissing Power House	Powassan Tap.....	34	126	3.00	137	22,000
52 x 2	.....	Powassan Tap.....	Powassan.....	32	126	4.00	184	22,000
52 x 3	.....	Powassan Tap.....	Callendar.....	34	126	7.00	318	22,000
3 x 4	.....	Callendar.....	North Bay.....	35	126	8.20	401	22,000

OF LINES

SYMBOL "H"

No. of Circuits.	Power Cable B. & S. Gauge	Telephone Wire B. & S. & B.W.G Gauge	Ground Cable	Power Ins. No.	Work Commenced	In Operation
1	125,000 c.m. S.R. A1	9 B.W.G. Gal. Iron	9/32" G. Steel	C.P. 889	Aug. 22, 1918	June 23, 1919
1	125,000 c.m. S.R. A1	9 " "	9/32" "	C.P. 889	April 12, 1918	Feb. 18, 1919
1	125,000 c.m. S.R. A1	9 " "	9/32" "	{ C.P. 889 O.B. 11622	May 7, 1919	May 31, 1920
1	5/16" Gal. Steel.	9 " "	1/4" Gal. Steel	C.P. 889	Nov. 27, 1917	Sept. 5, 1918
1	125,000 c.m. S.R. A1	9 " "	9/32" G. Steel	C.P. 889	Aug. 22, 1918	June 23, 1919
1	3x12 Gal. Steel	3x12 Gal. Steel	.....	O.B. 9410	July 26, 1921	Nov. 28, 1921
1	125,000 c.m. S.R. A1	9 B.W.G. Gal. Iron	9/32" G. Steel	C.P. 889	April 12, 1918	Feb. 18, 1919
1	2 S.R. Alum.	.....	.....	C.P. 105	July 26, 1921	Sept. 29, 1921

OF LINES

SYMBOL "P"

Ind. 2	3/0 Alum.	No. 10 Copper	1/4" Gal. Steel	O.B. 9410	.....	1910
Poles do	3/0 Alum.	No. 10 "	1/4" " "	" "	.....	1910
do	3/0 Alum.	No. 10 "	1/4" " "	" "	.....	1910
2	4/0 Alum.	No. 10 "	1/4" " "	C.P. 889	Prop. of Pt.	Arthur
1	4/0 S.R. Alum.	3x13 Gal. Steel.	9/32" G. Steel	C.P. 2133	Dec. 17, 1919	Dec. 20, 1920
1	4/0 " "	3x13 "	9/32" "	C.P. 2133	Dec. 17, 1919	Dec. 20, 1920
1	4/0 " "	3x13 "	9/32" "	O.B. 12464	Mar. 1, 1919	Dec. 20, 1920
1	4/0 " "	3x13 "	9/32" "	O.B. 12464	Mar. 1, 1919	Dec. 20, 1920
2	4/0 " "	3x13 "	9/32" "	C.P. 2133	Oct. 27, 1919	Dec. 20, 1920
1	4/0 " "	3x13 "	9/32" "	C.P. 2133	May 3, 1919	Dec. 20, 1920
1	4/0 " "	3x13 "	9/32" "	C.P. 2133	Nov. 4, 1920	Dec. 20, 1920
1	4/0 " "	3x13 "	9/32" "	C.P. 2133	Nov. 20, 1920	April 29, 1921
1	4/0 " "	3x13 "	9/32" "	C.P. 2133	Mar. 9, 1921	April 29, 1921

for operating purposes.

P54x2 (T) grouped for operating purposes.

OF LINES

SYMBOL "Z"

1	No. 6 W.P. Cop'r	.....	.....	.....	1911	1911
1	No. 2 Alum.	9 B.W.G. Gal. Iron	5/16" G. Steel	.....	Aug., 1909	Mar. 1910
1	No. 2 Alum.	9 " "	5/16" "	.....	Nov., 1911	Dec., 1911
1	No. 2 Alum.	9 " "	5/16" "	.....	Aug., 1909	Mar., 1910
1	No. 2 Alum.	9 " "	5/16" "	.....	Aug., 1909	Mar., 1910

DESCRIPTION
CENTRAL ONTARIO SYSTEM

H. T. Lines Ending at

New Section Number	Old Section No.	From	To	Aver. height of Poles	Aver. Span	Miles	No. of Poles	Vol- tage
C. 2 x 3	.....	Sydney Gen. Stat.....	Sydney Ter. Stat.....	Feet Under	Feet ground	Cables		6,600
5 x 3	62 & 63	Frankford Gen. Stat...	Sydney Ter. Stat.....	35	100	4.70	260	6,600
53 x 3	R	Wooler Sw. Pole.....	Sydney Terminal.....	35	176	6.53	207	44,000
96 x 6	H	Picton Jct.....	Brighton Stat.....	35	132	7.30	307	44,000
6 x 7	H	Brighton Stat.....	Colborne Stat.....	35	132	10.10	429	44,000
12 x 11	12	Campbellford Town	Seymour Gen. Stat....	30	132	1.20	50	2,400
	TieLine	Plant.						
7 x 13	H	Colborne Station.....	Cobourg Station.....	35	132	13.80	581	44,000
13 x 16	H	Cobourg Station.....	Port Hope Station.....	35	132	6.70	249	44,000
17 x 18	20	Peterboro Hydraulic..	Auburn Gen. Stat....	Carrie	d on C	18 x 20	Poles	2,400
18 x 19	80 & 81	Auburn Gen. Stat.....	Auburn Step-up Stat...	Under	ground	Cables	200 ft.	6,600
31 x 19	Y	Norwood Stat.....	Auburn Step-up Stat...	40	300	17.89	301	44,000
79 x 19	K	Lindsay Jct.....	Auburn Step-up Stat...	35	132	8.70	384	44,000
18 x 20	83, 84 & 85	Auburn Gen. Stat.....	Peterboro Station.....	30-50	100	2.00	105	6,600
66 x 22	C	Port Hope Sw. Sta....	Newcastle Trans. Stat..	35	132	15.60	717	44,000
22 x 23	C	Newcastle Stat.....	Bowmanville Stat.....	35	132	4.50	206	44,000
				40	150	1.20	40	44,000
23 x 24	C	Bowmanville Stat.....	Oshawa Stat.....	35	132	9.70	418	44,000
75 x 25	Mill'bk. Tap	Millbrook Jct.....	Millbrook Stat.....	35	132	1.70	71	44,000
76 x 26	.....	Not to be used. (One	span only).....					
76 x 29	L	Omeme Sw. Tower....	Lindsay Stat.....	35	132	13.20	559	44,000
30 x 29	100 & 101	Fenelon Falls Gen. Sta.	Lindsay Stat.....	30	100	13.00	.....	11,000
14 x 31	Y	Healey Falls Gen. Sta..	Norwood Stat.....	40	300	10.44	174	44,000
47 x 32	.....	Marmora Stat.....	Delora Stat.....	35	132	4.10	182	44,000
83 x 33	Madoc	Madoc Jct.....	Madoc Stat.....	35	132	9.60	437	44,000
83 x 34	Tap	Madoc Jct.....	Sulphide Stat.....	35	132	20.30	862	44,000
85 x 35	Stirling	Stirling Jct.....	Stirling Stat.....	35	132	.20	8	44,000
	Tap							
86 x 36	Pulp M. Tap	Pulp Mill Jct.....	Pulp Mill, Campbellf'd.	35	132	1.40	55	44,000
87 x 37	64 & 65	Brit. Chem. Co. Jct....	Trenton Stat.....	30	132	.....	2	6,600
88 x 38	B'ville	Belleville Sw. Sta....	Belleville Stat.....	35	132	1.30	41	44,000
90 x 39	B.P. Co	Belle. Chem. Co. Jct...	B'ville Cement Co. Sta.	35	132	1.00	57	44,000
	Tap							
90 x 40	Quarry	Belle. Cement Co. Jct..	Pt. Anne Quarries Sta..	35	132	.90	49	44,000
	Tap							
91 x 41	E & F.	Lehigh Jct.....	Lehigh Cem. Co. St....	35	132	.60	33	44,000
92 x 42	J	Deseronto Jct.....	Deseronto Sta.....	35	132	2.80	115	44,000
92 x 43	J	Deseronto Jct.....	Napanee Stat.....	35	132	6.00	246	44,000
43 x 44	J	Napanee.....	Kingston Stat.....	35	175	26.50	863	44,000
96 x 45	Picton	Picton Jct.....	Wellington Stat.....	40	176	17.62	565	44,000
	Tap							
45 x 46	Picton	Wellington St.....	Picton Stat.....	40	176	10.80	345	44,000
	Tap							
82 x 47	Delora	Delora Jct.....	Marmora Stat.....	35	132	10.40	464	44,000
	Tap							
H.T. Lines Ending at								
86 x 52	G	Pulp Mill Jct.....	G.B. Jct.....	35	132	14.20	641	44,000
64 x 53	R	Meyersburg Sw. Pole..	Wooler Sw. Pole.....	35	176	12.90	412	44,000
14 x 61	O	Healey Falls.....	Campbellford Jct ...	35	132	3.60	169	44,000

OF LINES

SYMBOL "C"

Transformers or Generating Stations

No. of Cir- cuits	Power Cable B. & S. Gauge	Telephone Wire B. & S. & B.W.G Gauge	Ground Cable	Power Ins. No.	Work Commenced	In Operation
{ 2 2	Cirs. Cables each.	Style "B."				1911
3	300,000 c.m. Alum	9 B.W.G. Gal. Iron	1/4" Gal. Steel	Locke 298		1912
1	2/0 Copper.	10 B.&S. C.C. Steel	1/4" " "	O.B. 11623		1918
1	4/0 Alum.	9 B.W.G. Gal. Iron	1/4" " "	{ C.P. 1159 O.B. 11623		1911
1	4/0 Alum.	9 " "	1/4" " "	C.P. 1159		1911
3	4/0 Alum.	9 " "				1910
1	4/0 Alum.	9 " "	1/4" Gal. Steel	C.P. 1159		1911
1	4/0 Alum.	9 " "	1/4" " "	C.P. 1159		1911
1	No. 1 Copper.					1902
2						Rebuilt 1918
1	4/0 S.R. Alum.	3x13 Galv. Steel.	9/32" G. Steel	C.P. 1725		1920
1	4/0 S.R. Alum.	9 B.W.G. Gal. Iron	1/4" Gal. Steel	C.P. 1159		1912
3	2/0 Copper					1902
1	No. 1 Copper					Rebuilt 1918
1	4/0 Alum.	9 B.W.G. Gal. Iron	1/4" Gal. Steel	C.P. 1159		1911
1	4/0 Alum.	9 " "	1/4" " "	" "		1911
2	4/0 Alum.	9 " "	1/4" " "	" "		1911
1	4/0 Alum.	9 " "	1/4" " "	" "		1911
1	6 BWG Gal. Iron	9 " "	1/4" " "	O.B. 10638		1912
1	2/0 Alum.	9 B.W.G. Gal. Iron	1/4" Gal. Steel	C.P. 1159		1912
2	4 Copper	9 " "	Barbed Wire			1899
1	4/0 S.R. Alum.	3x13 Gal. Steel.	9/32" G. Steel	C.P. 1725		1920
1	No. 2 Alum.	9 B.W.G. Gal. Iron	1/4" " "	C.P. 1159		1909
1	No. 2 Alum.	9 " "	1/4" " "	" "		1910
1	No. 2 Alum.	9 " "	1/4" " "	O.B. 25529		1910
1	No. 2 Alum.	9 " "	1/4" " "	{ 362 Locke Retested		1910
1	No. 0 Alum.	9 " "	1/4" " "	{ 362 Locke Retested		1911
2	No. 4/0 Alum.	9 " "				1911
1	4/0 Alum.	9 " "	1/4" " "	C.P. 1159		1910
1	2 Alum.	9 " "	1/4" " "	C.P. 1159		1911
1	No. 2 Alum.	9 " "	1/4" " "	C.P. 1159		1911
2	No. 2 Alum.	9 " "	1/4" " "	C.P. 1159		1912
1	No. 2 Alum.	9 " "	1/4" " "	" "		1912
1	4/0 Alum.	9 " "	1/4" " "	" "		1912
1	1/0 Copper.	9 " "	1/4" " "	C.P. 1725		1917
1	9/32" Galv. Steel	9 " "	9/32" Gal Steel	C.P. 1159		1919
1	9/32" " "	9 " "	9/32" " "	" "		1919
1	No. 2 Alum.	9 " "	1/4" Gal. Steel	" "		1909

Switching Stations or Junctions

1	4/0 Alum.	9 B.W.G. Gal. Iron	1/4" Gal. Steel	{ 362 Locke Retested	1911
1	2/0 Copper.	10 B.&S. C.C. Steel	1/4" " "	O.B. 11623	1918
1	4/0 Alum.	9 B.W.G. Gal. Iron	1/4" " "	{ 362 Locke Retested	1912

DESCRIPTION
CENTRAL ONTARIO SYSTEM

H. T. Lines Ending at Switching

New Section Number	Old Section No.	From	To	Aver. height of Poles	Aver. Span	Miles	No. of Poles	Volt- age
C				Feet	Feet			
14 x 64	R	Healey Falls.....	Meyersburg Sw. Pole...	35	176	11.10	356	44,000
16 x 66	H	Port Hope.....	Port Hope Sw'n Stat...	35	132	.20	8	44,000
66 x 75	K	Port Hope Sw. Stat...	Millbrook Jct.....	35	132	15.50	663	44,000
79 x 76	L	Lindsay Jct.....	Omemees Sw. Tower...	35	132	6.00	253	44,000
75 x 79	K	Millbrook Jct.....	Lindsay Jct.....	35	132	10.70	447	44,000
11 x 82	A	Seymour Gen. Stat....	Deloro Sw. Sta.....	35	132	5.50	244	44,000
84 x 83	A	Harold Jct.....	Madoc Jct.....	35	132	5.10	212	44,000
82 x 84	A	Deloro Jct.....	Harold Jct.....	35	132	4.50	182	44,000
85 x 84	Q	Stirling Jct.....	Harold Jct.....	35	132	8.30	308	44,000
52 x 85	Q	G. B. Jct.....	Stirling Jct.....	35	132	1.10	48	44,000
11 x 86	G	Seymour Gen. Sta....	Pulp Mill Jct.....	35	132	1.20	57	44,000
3 x 87	64 & 65	Sidney Ter. Sta.....	British Chem. Co. Jct..	30	132	.70	28	6,600
3 x 88	M	Sidney Ter. Stat.....	Belleville Sw. Stn.....	35	132	12.70	515	44,000
52 x 88	B	G. B. Jct. No. 7.....	Belleville Sw. Stn.....	35	132	13.00	567	44,000
88 x 90	E & F	Belleville Sw. Sta.....	Belleville Cem. Co. Jct.	35	132	4.80	246	44,000
90 x 91	E & F	Belleville Cem. Co. Jct.	Lehigh Jct.....	35	132	1.00	51	44,000
91 x 92	J	Lehigh Jct.....	Deseronto Jct.....	35	132	11.20	552	44,000
3 x 96	H	Sidney Term. Stn.....	Picton Jct.....	35	132	4.70	203	44,000

L.T. Lines Ending at

87 x 301	.....	British Chem. Co. Jct..	Br. Chem. Co., Trenton	30	132	.10	6	6,600
5 x 501	70	Frankford Gen. Sta....	Companies at Frankf'd	30	132	2.00	85	6,600
11 x 1101	.....	Seymour Gen. Sta.....	Comps. at Campbellf'd	30	132	1.25	50	2,400
11 x 1106	72	Seymour Gen. Sta.....	Hoard's.....	30	150	12.00	.....	6,600
18 x 1801	82	Auburn Gen. Sta.....	Auburn Woollen Mills	30	132	.10	5	6,600
22 x 2201	.....	Newcastle Trans Sta...	Newcastle.....	35	132	1.00	40	2,400
2201 x 2	Orono	Newcastle.....	Orono.....	30	132	5.00	210	2,400
24 x 2402	Whitby	Oshawa Stat.....	Whitby.....	30	132	4.00	175	4,160
30 x 3001	.....	Fenelon Falls Gen. Sta.	Fenelon Falls. One sp	an only cross	ing riv	er 550	ft.	
33 x 3302	.....	Madoc Stat.....	Can. Sulphur Ore.....	This line has	been	taken	down	
3363 x 3	.....	Cross & Wellington Jct	Cross & Wellington...	30	132	1.50	60	4,160
3303 x 4	.....	Cross & Wellington Jct	Can. Indust. Minerals..	30	132	2.50	100	4,160
3365 x 5	.....	Gillespie Talc. Mine Jct	Gillespie Talc. Mines ..	30	132	.10	3	4,160
3365 x 6	.....	Gillespie Talc. Mine Jct	Anglo American Talc...	30	132	.20	8	4,160
33 x 3307	.....	Madoc Stat.....	Gillespie Talc. Mill....	30	132	1.00	40	4,160
33 x 3363	.....	Madoc Stat.....	Cross & Wellington Jct.	30	132	.80	32	4,160
3363 x 65	.....	Cross & Wellington Jct	Gillespie Talc. Mine Jct.	30	132	1.25	50	4,160
34 x 3402	.....	Sulphide Sta.....	Tweed.....	30	132	6.00	240	4,160
43 x 4302	New- burgh	Napanee Sta.....	Newburgh.....	30	132	7.91	.....	4,160
45 x 4502	B'field	Wellington Sta.....	Bloomfield.....	.....	.....	6.53	.....	4,160
14 x 1401	73	Healey Falls Pow. Hse.	Ont. Rock Co.....	30	150	6.01	222	6,600
18 x 1832	82	Auburn Gen. Stat.....	Lakefield D.S.....	30	150	7.92	290	6,600
26 x 2601	.....	Omemees Stat.....	Omemees.....	30	132	1.00	40	4,160
31 x 3102	.....	Norwood Stat.....	Havelock.....	30	150	6.62	259	4,000

OF LINES

SYMBOL "C"—Continued

Stations or Junctions (Continued)

No. of Cir- cuits	Power Cable B. & S. Gauge	Telephone Wire B. & S. & B.W.G Gauge	Ground Cable	Power Ins. No.	Work Commenced	In Operation
1	2/0 Copper.	10B.&S. C.C. Steel	1/4" Gal. Steel	O.B. 11623	.....	1918
1	4/0 Alum.	9 B.W.G. Gal. Iron	1/4" " "	C.P. 1159	.....	1911
1	4/0 Alum.	" "	1/4" " "	Pole 1-600	.....	1912
1	2/0 Alum.	9 " "	1/4" " "	362 Locke	.....
1	4/0 Alum.	9 " "	1/4" " "	C.P. 1159	.....
				P. 600-630	.....	1912
1	No. 2 Alum.	9 " "	1/4" " "	362 Locke	.....
1	No. 2 Alum.	9 " "	1/4" " "	362 Locke	.....	1909
1	No. 2 Alum.	9 " "	1/4" " "	Retested	.....
1	No. 2 Alum.	9 " "	1/4" " "	25529 O.B.	.....	1910
1	No. 2 Alum.	9 " "	1/4" " "	1159 C.P.	.....
1	No. 2 Alum.	9 " "	1/4" " "	362 Locke	.....	1909
1	No. 2 Alum.	9 " "	1/4" " "	Retested	.....
1	No. 2 Alum.	9 " "	1/4" " "	362 Locke	.....	1910
1	No. 2 Alum.	9 " "	1/4" " "	Retested	.....
1	No. 2 Alum.	9 " "	1/4" " "	362 Locke	.....	1910
1	4/0 Alum.	9 " "	1/4" " "	Retested	.....
1	4/0 Alum.	9 " "	1/4" " "	362 Locke	.....	1911
2	4/0 Alum.	9 " "	.....	Retested	.....	1911
1	4/0 Alum.	9 " "	1/4" " "	O.B. 11623	.....	Rebuilt 1917
				C.P. 1159	.....	1911
1	4/0 Alum.	9 " "	1/4" " "	C.P. 1159	.....	1910
2	4/0 Alum.	9 " "	1/4" " "	C.P. 1159	.....	1911
				O.B. 12855	.....
2	4/0 Alum.	9 " "	1/4" " "	C.P. 1159	.....	1911
1	4/0 Alum.	9 " "	1/4" " "	C.P. 1159	.....	1912
1	4/0 Alum.	9 " "	1/4" " "	O.B. 11623	.....	1911

Customers and Junctions

1	4/0 Alum.	9 B.W.G. Gal. Iron	.....	.....	.....	1917
1	No. 6 Copper	.....	.....	.....	.....	1914
1	No. 2 Alum.	9 B.W.G. Gal. Iron	9/32" G. Steel	.....	.....	1912
1	4/0 Alum.	.....	.....	Locke 298	.....	1912
1	No. 2 Alum.	.....	.....	.....	.....
1	9/32" Gal. Steel	Carried on C18 x	1832 Poles	.....	.....	Rebuilt 1918
1	No. 4 W.P. Cop.	.....	.....	.....	.....	1911
1	No. 2 Alum.	.....	.....	.....	.....	1912
1	No. 2 Alum.	.....	1/4" Gal. Steel	.....	.....	1912
1	4/0 Alum.	.....	.....	.....	.....	1914
1	No. 1 Std. Copper	.....	1/4" Gal. Steel	.....	.....	1917
1	No. 1 Std. Copper	.....	1/4" Gal. Steel	.....	.....	1912
1	No. 2 Alum.	.....	1/4" " "	.....	.....	1914
1	No. 6 Copper.	.....	1/4" " "	.....	.....	1916
1	No. 2 Alum.	.....	.....	.....	.....	1914
1	2/0 Copper	.....	1/4" " "	.....	.....	1911
1	No. 2 Alum.	.....	1/4" " "	.....	.....	Rewired 1918
1	2/0 Alum.	9 B.W.G. Gal. Iron	9/32" G. Steel	.....	.....	1918
1	No. 2 Solid Cop'r.	.....	6 BWG. GIron	.....	.....	1912
1	No. 2 S.R. Alum.	Carried on C45 x	46 Poles.	C.P. 105B	.....	1917
1	No. 2 S.R. Alum.	.....	9/32" G. Steel	T. 2041	.....	1919
1	No. 2 S.R. Alum.	.....	9/32" G. Steel	T. 2041	.....	1920
1	No. 6 W.P. Cop'r	.....	9/32" G. Steel	.....	.....	1920
1	No. 2 S.R. Alum	.....	4x12 Gal. Steel	C.P. 505	.....	1917
1	No. 2 S.R. Alum	.....	.....	.....	.....	1921

DISTRIBUTION FEEDERS

Construction of wood pole lines and circuits to feed incorporated municipalities has been carried on as follows:—

NIAGARA SYSTEM:

Newbury to Wardsville—2.07 miles of wood pole line with single phase, 2,300 volt circuit.

Work commenced—April 15th, 1921.

Made alive—June 15th, 1921.

Work completed—June 25th, 1921.

Simcoe to Port Dover—6.95 miles of 3 phase, 4,000-2,300 volt circuit, of which 2.25 miles were placed on existing poles, new poles being erected for the remainder.

Work commenced—July 6th, 1921.

Welland to Welland County Rock Crusher—5.35 miles of 3 phase, 4,000-2,300 volt circuit, of which 1.38 miles were placed on existing poles, new poles being erected for the remainder.

Work commenced—July 13th, 1921.

Made alive—Sept. 18th, 1921.

Work completed—Aug. 23rd, 1921.

Etobicoke Station to Mimico—0.4 miles of 3 phase, 4,000-2,300 volt circuit were erected on existing poles.

Work commenced—October 6th, 1921.

Made alive—October 19th, 1921.

Work completed—October 14th, 1921.

EUGENIA SYSTEM:

Hanover to Neustadt—6.01 miles of 3 phase, 4,000-2,300 volt circuit on existing poles, No. 6 copper conductors were taken down and No. 3-0 SR aluminum conductors erected.

Work commenced—February 5th, 1921.

Work completed—February 11th, 1921.

ST. LAWRENCE SYSTEM:

Martintown to Lancaster—11.7 miles of wood pole line with 3 phase, 4,000-2,300 volt circuit.

Work commenced—November 4th, 1920.

Made alive—May 25th, 1921.

Work completed—June 4th, 1921.

RIDEAU SYSTEM:

Balderson to Lanark—5.0 miles of wood pole line with single phase, 2,300 volt circuit.

Work commenced—July 25th, 1921.

Made alive—Sept 29th, 1921.

Work completed—Sept. 1st, 1921.

RURAL DISTRIBUTION SYSTEMS

Wood pole lines were constructed or Underground Cable installed in the following Rural Power Districts:—

NIAGARA SYSTEM:

Dundas Rural Power District—

Bullock's Corners to Christie's Corners—2,300 volt, 3.76 miles, 24 consumers, completed Dec. 31, 1920.

Copetown—2,300 volt, 1.01 miles, 16 consumers, completed May 3, 1921.

Waterdown Rural Power District—

Waterdown—2,300 volt, 0.23 miles, 6 consumers, completed Oct. 13, 1921.

Saltfleet Rural Power District—

Saltfleet Township—Work commenced on Oct. 25th, 1921, not completed on Oct. 31st, 1921.

Niagara Rural Power District—

Niagara River Road—4,000 volt underground construction was commenced on Oct. 25th, 1921, and not completed on Oct. 31st, 1921.

ST. LAWRENCE SYSTEM:

Prescott Rural Power District—

Prescott to Spencerville—2,300 volt construction was commenced on Oct. 15th, 1921, and not completed on Oct. 31st, 1921.

Chesterville Rural Power District—

Chesterville Ridge Road Extension—2,300 volt, 0.63 miles on existing poles, 3 consumers, completed April 20th, 1921.

Brockville Rural Power District—10 services were connected to the existing 2,300-volt line east of Brockville during the year.

OTTAWA SYSTEM:

Nepean Rural Power District—4,000 volt construction was commenced on Sept. 27th, 1921, and not completed on Oct. 31st, 1921.

SECTION III

OPERATION OF THE SYSTEMS

NIAGARA SYSTEM, 1920-21

During the year just past, the outstanding feature in the operation of the Commission's Niagara System has been the unprecedented recovery, beyond all expectations, of the power demand of the municipalities. Early in the year, with industrial conditions becoming stagnant, it seemed reasonable to expect the System loads to exceed by very little, if at all, those for corresponding periods of the previous year. However, the fact that such large increases have been realized shows most clearly that the people want Hydro power and that the market for power on the Niagara System is far from the point of saturation.

Early in November, 1920, satisfactory arrangements were completed with the Toronto Power Company for the use of one machine of approximately 15,000 horse-power, and on November 15th the power was available for the Niagara System municipalities. On December 30th the supply of power was again increased by the use of one machine of 9,000 horse power from the Canadian Niagara Power Company, and was still further added to by a second Toronto Power Company machine of 15,000 horse power on October 17, 1921. These additions were barely sufficient to take care of the demands, and negotiations with the Niagara Falls Power Company are now under way for an extra supply to tide the System over until Queenston power is available.

The supply of power to the Commission's High Tension Station at Niagara from the Ontario Power Company left little to be desired, and the same may be said of the supply from the Toronto Power Company and the Canadian Niagara Power Company. Fortunately the winter of 1920-21 was very mild and no inconvenience was experienced from lack of power supply from the Canadian Niagara Power Company, such as occurred in the previous year due to ice formations in the Niagara River.

The supply to the Niagara System from the Niagara High Tension Station has been practically continuous, power being on the System 99.987 per cent. of the total time. In only one instance was there a total interruption due to failure of station equipment, and that for a very short period. When one realizes the immensity of the net work of lines, the great number of stations and amount of equipment connected to this net-work, the above figures are truly remarkable. Such results can only be obtained through the installation of first-class, up-to-date equipment and with constant inspection and attention to the same.

Electrical storms were experienced on sixty-four days during the period of March 5th to October 17th; seven of these were general to the System, five being particularly severe. The lightning arrester equipment on the high tension lines at the different stations functioned properly, so that in no instance were any high tension lines put out of action.

In order to take care of the increasing power demands in the various localities, the transformer capacity at a number of stations was increased during the past year. At Kitchener High Tension Station a bank of three 2,500 k.v.a. units replaced a bank of three 750 k.v.a. units; at Etobicoke Station one 1,500 k.v.a. three-phase unit was placed in service; at Petrolia a bank of three 150 k.v.a. units was replaced with a bank of three 300 k.v.a. transformers; at Oil Springs one 50 k.v.a. three-phase unit was replaced with a 75 k.v.a. three-phase unit; at Port Stanley the capacity was increased from 225 k.v.a. to 300 k.v.a., and at the Essex Distributing Station a 75 k.v.a. three-phase transformer was replaced with one 150 k.v.a. three-phase unit. At present the work of increasing the transformer capacity at the Kent and Essex High Tensions Stations is in progress; at Kent a bank of three 2,500 k.v.a. transformers is to replace a bank of three 1,250 k.v.a. units, while at Essex a bank of three 5,000 k.v.a. transformers is being added to the present equipment.

The second 4,000 k.v.a. condenser from the Toronto Station, which was shipped to the Canadian General Electric Works at Peterboro to have its winding replaced with a 5,000 k.v.a. winding, was returned early in the year and quickly placed in service. In January a 10,000 k.v.a. condenser was placed in service at the London High Tension Station. The benefits to the System derived from these machines, in relieving the System and generating plants of wattless current and in improving the voltage regulation, is most noticeable.

A special type of high-speed circuit-breaker was installed in the St. Thomas High Tension Station on the three 500 k.w. 1,500 volt direct-current rotaries at that point, and in operation has been very efficient, reducing the flash-over trouble on these machines.

The Station Maintenance Field Staff has been actively employed maintaining in good condition all the equipment, buildings and grounds of the numerous high-tension and low-tension stations on the System. Some of such duties consist of periodic overhauling of oilbreakers, lightning arresters, transformers, batteries, pumps, rotating equipment, and the cleaning, painting and maintaining of station buildings. In addition to the regular routine maintenance this staff has handled considerable installation work, changes and improvements in operating stations, and rendered assistance to municipalities on their request.

The many routine duties associated with the upkeep of transmission lines delivering power at various voltages and spreading over hundreds of miles of territory, were handled most efficiently by our Line Maintenance Field Staff. The usual yearly test and inspection of high tension insulators was carried out during the summer months, and some 227,000 units tested; approximately 2 per cent. of these were found defective and replaced. The pin-type insulation on a number of 13,200 volt lines which have been in service for approximately ten years was inspected and defective insulators were removed and replaced. In addition to the above, our line staff has relocated a large number of poles in all sections of the country due to the widening and changing of location of highways by the Provincial Department of Public Works.

In anticipation of increased power demands by municipalities and customers supplied from the high tension stations, the double circuiting of the 110,000 volt lines from Dundas to Guelph, Preston and Kitchener was proceeded with by the Line Maintenance Staff, and this work is practically completed; 110,000 volt outdoor switching stations, similar to those at Cooksville, Brant and Woodstock were erected at Guelph and Preston, tying in the new 110,000 volt circuit to these stations.

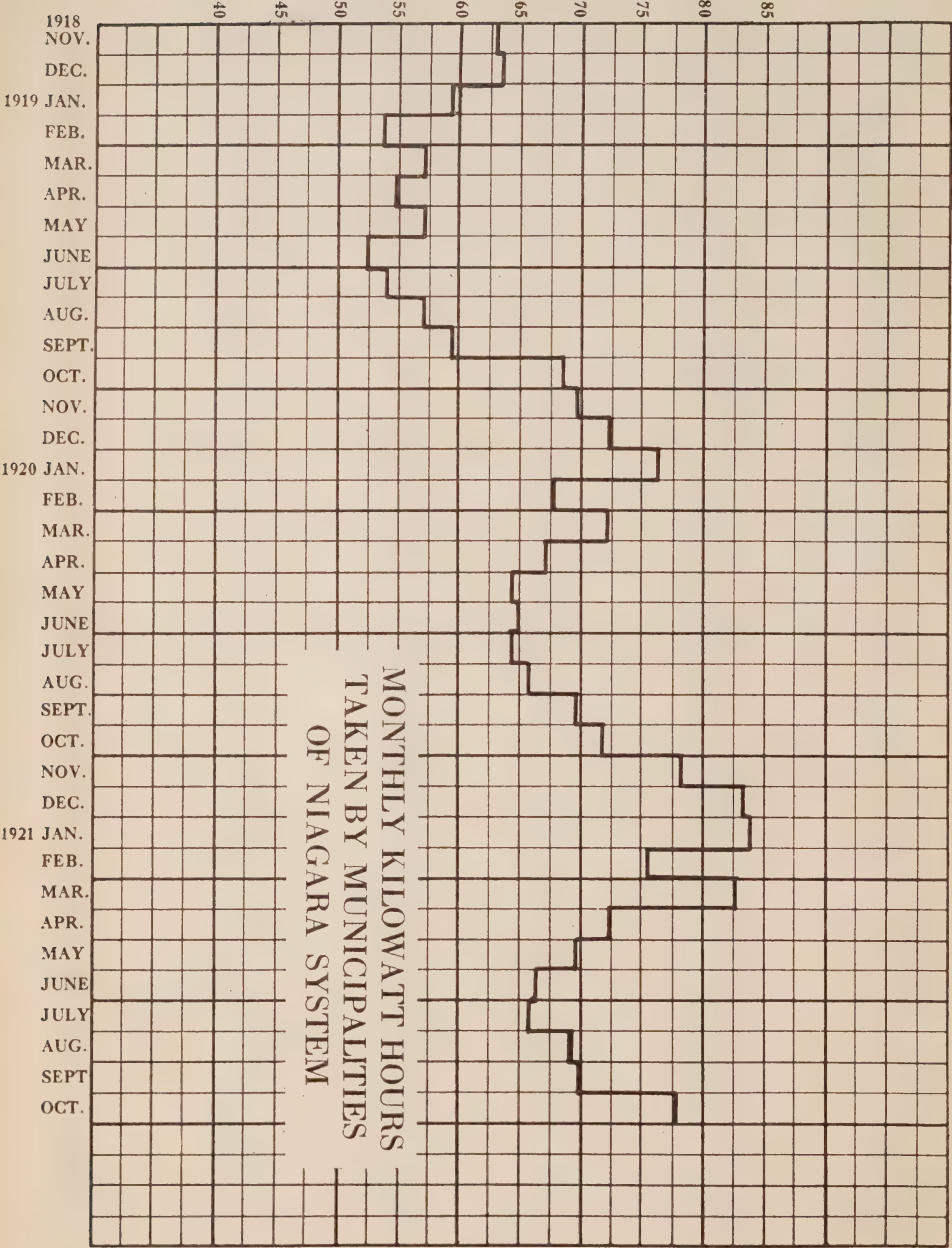
NIAGARA SYSTEM—LOADS ON MUNICIPALITIES, 1920-21

Municipality	Load in Horsepower		Increase
	Oct., 1920	Oct., 1921	
Acton.....	193.	229.2	26.2
Ailsa Craig.....	128.6	134.	5.4
Aylmer.....	172.	194.3	22.3
Ayr.....	77.2	71	.....
Baden.....	175.6	167.5	.....
Beachville.....	223.0	221.	.....
Blenheim.....	134.0	156.8	22.8
Bolton.....	105.9	132.7	26.8
Bothwell.....	120.6	116.3	.....
Brampton.....	965.0	969.	4.
Brantford.....	4,162.	4,866.	704.
Breslau.....	32.1	96.5	64.4
Brigden.....	107.1	111.2	4.1
Burford.....	37.8	53.6	15.8
Burgessville.....	42.4	43.8	1.4
Caledonia.....	83.	106.4	23.4
Chatham.....	2,151.5	2,240.	88.5
Clinton.....	154.0	170.2	16.2
Comber.....	135.4	102.4	.....
Cooksville.....	63.6	80.4	16.8
Dixie.....	52.6	50.2	.....
Dashwood.....	11.7	16.	14.3
Delaware.....	89.8	30.5	.....
Dorchester.....	48.2	59.7	1.5
Drayton.....	196.3	196.3	.....
Drumbo.....	21.	20.3	.....
Dublin.....	45.3	45.3	.....
Dundas.....	1,132.7	921.	.....
Dunnville.....	241.3	282.8	41.5
Dutton.....	107.2	111.2	4.0
Elmira.....	213.0	240.	27.0
Elora.....	194.3	202.6	8.3
Embro.....	58.4	60.3	1.9
Essex County.....	1,126.0	1,213.	47.0
Etobicoke Township.....	335.0	431.6	96.6
Exeter.....	175.6	186.3	10.6
Fergus.....	185.0	245.3	60.3
Forest.....	116.0	136.7	20.7
Galt.....	2,931.5	3,485.2	553.7
Georgetown.....	524.0	496.0	.....
Glencoe.....	67.5	74.5	7.0
Goderich.....	496.	439.6	.....
Granton.....	67.7	64.0	.....
Grantham Township.....	26.0	35.9	9.9
Guelph.....	3,638.0	4,249.3	611.3
Guelph Military Hospital.....	160.8	136.7	.....
Guelph O. A. College.....	147.4	187.6	40.2
Hagersville.....	260.	431.6	171.6
Hamilton.....	17,895.0	16,837.4	.....
Harriston.....	227.8	193.0	.....
Hensall.....	85.7	49.3	.....
Hespeler.....	348.5	453.	104.5
Highgate.....	86.	75.2	.....
Ingersoll.....	1,085.7	911.5	.....
Kitchener.....	6,648.8	7,171.6	522.8
Lambeth.....	22.7	26.2	3.5
Listowel.....	453.0	482.5	29.5
London.....	10,656.8	12,392.7	1,735.9
Lynden.....	87.8	76.4	.....
Markham.....	37.0	61.	24.
Lucan.....	216.6	185.	.....
Milton.....	670.0	737.2	67.2
Milverton.....	290.8	207.7	.....

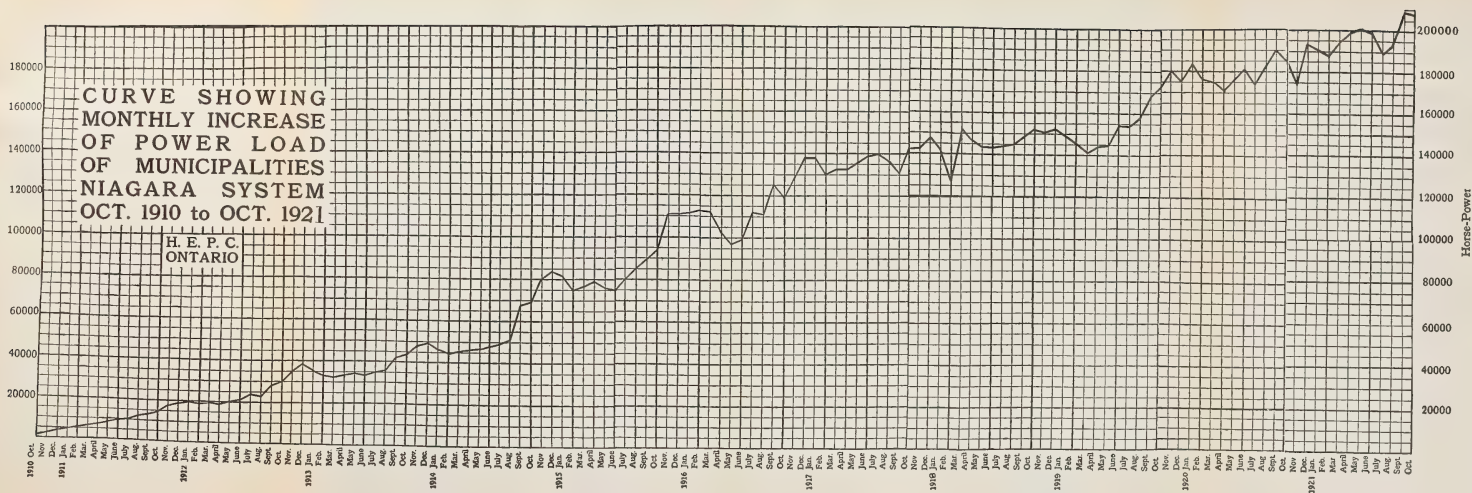
NIAGARA SYSTEM—LOADS ON MUNICIPALITIES 1920-21—Continued

Municipality	Load in Horsepower		Increase
	Oct., 1920	Oct., 1921	
Mimico.....	388.7	551.	162.3
Mimico Asylum.....	37.5	37.5	.....
Mitchell.....	195.7	197.7	2.0
Moorefield.....	35.	36.2	1.2
Mt. Brydges.....	23.1	30.5	7.4
New Hamburg.....	236.	248.	12.
New Toronto.....	3,284.2	1,356.5	.....
Niagara Falls.....	3,610.	3,706.4	96.4
Niagara-on-the-Lake.....	229.2	197.	.....
Norwich.....	223.0	277.4	54.4
Oil Springs.....	95.0	171.5	76.5
Otterville.....	33.5	39.4	5.9
Palmerston.....	191.6	227.8	36.2
Paris.....	643.4	703.7	60.3
Parkhill.....	48.2	59.6	9.4
Petrolia.....	442.3	449.0	6.7
Petersburg and St. Agatha.....	17.0	26.8	8.8
Plattsville.....	100.5	32.	.....
Pt. Colborne.....	270.0	332.0	62.
Pt. Credit.....	103.2	138.	34.8
Pt. Dalhousie.....	144.7	143.4	.....
Pt. Stanley.....	124.6	193.	68.4
Preston.....	1,485.2	1,599.2	114.0
Princeton.....	15.6	17.9	2.3
Prov. Brick Yard.....	123.3	147.4	24.1
Ridgetown.....	173.6	201.	27.4
Rockwood.....	41.2	42.8	1.6
Rodney.....	91.6	103.2	11.6
Sarnia.....	2,795.0	3,002.7	207.7
Seaforth.....	281.5	242.6	.....
Simcoe.....	214.4	336.4	122.0
St. Catharines.....	3,477.0	3,702.0	243.0
St. George.....	60.3	86.4	26.1
St. Jacobs.....	88.4	75.	.....
St. Marys.....	878.	918.2	40.2
St. Thomas.....	2,417.	2,658.	241.0
Stamford Township.....	423.5	465.	41.5
Stratford.....	2,024.0	2,372.6	348.6
Strathroy.....	387.4	378.0	.....
Streetsville.....	232.0	246.6	14.2
Springfield.....	30.16	16.	.....
Tavistock.....	264.0	262.7	.....
Thamesford.....	83.0	105.2	22.2
Thamesville.....	62.7	83.0	20.3
Thorndale.....	110.0	107.7	.....
Tilbury.....	131.3	148.7	17.4
Tillsonburg.....	819.0	325.7	.....
Toronto.....	59,598.0	68,573.7	8,875.7
Wallaceburg.....	871.0	486.5	.....
Waterford.....	138.6	143.4	4.8
Waterloo.....	1,214.4	1,327.	112.6
Watford.....	72.3	67.9	.....
Wellesley.....	114.0	124.6	10.6
West Lorne.....	122.0	166.2	44.2
Weston.....	927.6	899.4	.....
Woodbridge.....	146.0	182.3	36.3
Woodstock.....	1,643.5	1,988.0	344.5
Wyoming.....	41.5	40.2	.....

Millions of Kilowatt Hours



Horse-Power



Horse-Power

NEW MUNICIPALITIES—NIAGARA SYSTEM

Municipality	Load in Horsepower		Increase	Connected
	Initial	Oct. 1921		
Wardsville.....	6	10	4	June 16, 1921
Newbury.....	12	12.7	10.7	Mar. 31, 1921

ONTARIO POWER COMPANY, 1920-1921

The plant and transmission lines of the Ontario Power Company which were taken over by the Hydro-Electric Power Commission on August 1, 1917, are controlled and operated from the Commission's executive offices in Toronto, where all administration, engineering, etc., are carried on.

While no important changes in equipment or arrangement of plant were made during the past year, the Ontario Power Company has continued the gradual replacement of worn-out apparatus and the improvement of operating facilities for the betterment of service. Much of the work carried on has been in the nature of a continuation of reconstruction commenced in 1919.

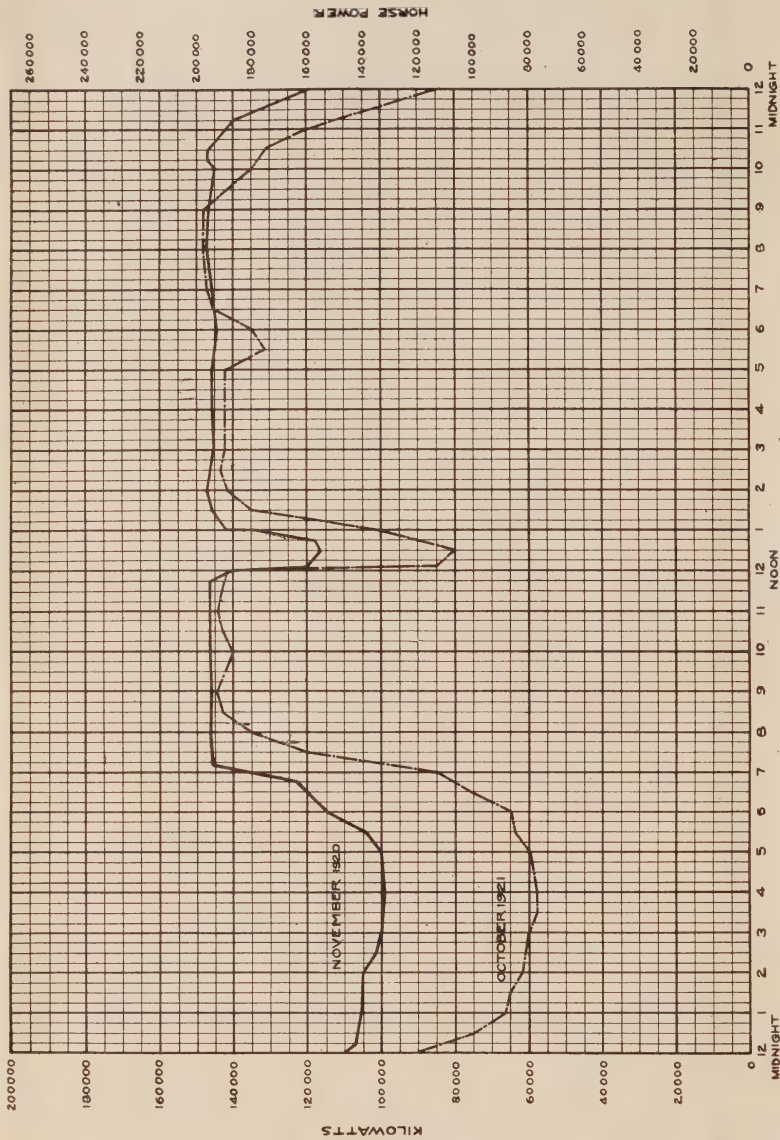
The Gate House building was cleaned inside and painted and the heating boilers were overhauled and repaired. The screens were scraped and repainted and all miscellaneous equipment attended to where necessary.

No expenses were incurred for the maintenance of the Pipe Lines, which are subject to little, if any, deterioration. The grounds around the Entrance House, which are controlled by the Queen Victoria Niagara Falls Park Commission, were restored to their original condition. Several cables carried across the Park property on permission obtained during the War were buried, and the temporary outlet replaced by a well-constructed concrete and stone manhole designed in accordance with requirements of the Park Commission. These cables were formerly exposed all the way from the Park Level to the Distributing Station, but are now buried completely, and the Distributing Station grounds at this point have been improved to correspond with the rest of the Company's property.

The construction work on the nine-foot (9') valves was completed, and all the valves and pipes not previously painted were cleaned and given a heavy coating of rust-resisting covering. The planking on the expansion decks was replaced, having decayed so badly as to be dangerous.

All generators were thoroughly cleaned and repainted. The bearings were dismantled and cleaned. All oil was filtered and, where necessary, replaced. The old type of closed end-bells on generators 8 to 16, which had been found to be a dangerous fire hazard, were replaced by open type end-bells, shown by our experience to be just as efficient in cooling the machine and much safer in operation.

All the old coils in No. 4 generator were removed and replaced by new. The winding of this unit has now been entirely renewed, and the machine is in practically as good condition as when it was first put into service. The field winding of this generator was overhauled and repaired, but was not completely reconstructed. No. 7 generator was also rewound, the new winding being of an improved design, which will operate more efficiently than the older windings and will, it is expected, have a much longer life. Repairs were made to the winding of No. 5 generator but this Unit was not completely rewound.



TYPICAL DAILY LOAD CURVES
THE ONTARIO POWER COMPANY

All exciters were thoroughly overhauled and in a few cases machines were completely rebuilt. These renewals were the result of ordinary wear and tear, and were not necessitated by trouble in any of the machines.

Nos. 3 and 4 auxiliary generators were inspected, cleaned and painted. They were found to be in first class condition and in fact showed little or no sign of their seven years' continuous service.

The cables on units 7, 8, and 9 which had given considerable trouble were replaced complete, and at the same time the arrangement of the cables in the tunnels and manholes was restored to the symmetrical layout originally intended and which had been departed from during the hurried construction of the War years. Three 350,000 c.m. lead-covered, paper-insulated, three-conductor cables were installed on each of the above machines to replace the two 500,000 c.m. cables formerly used.

The disconnecting switches in the Power House on generators 7 to 14 were replaced by switches of modern design better adapted for the severe short-circuit conditions imposed by the increased capacity connected to the System.

No. 7 turbine was completely rebuilt, new cast steel runners were installed and all defective gates were replaced; the worn parts were renewed so that this wheel is now in practically as good condition as when installed. The runners which were removed will be repaired by electric welding and will be used at some time in the future to replace damaged runners in some other machine. The old gates can also be repaired by electric welding, resulting in a very material saving in maintenance expense.

Turbine No. 13 was overhauled and all defective gates replaced. Repairs were made to the runners in place. In doing this work it was not necessary to completely dismantle the unit so that some of the repairs taken care of on No. 7 turbine could not be attended to on this machine, but it was nevertheless restored to first-class condition. All other turbines were repaired from time to time during the course of the year, but the changes made were mostly in the way of running repairs, which did not involve taking the machine out of service for extended periods.

The turbines on the auxiliary units were completely overhauled and the relief valves on these units were repaired and readjusted.

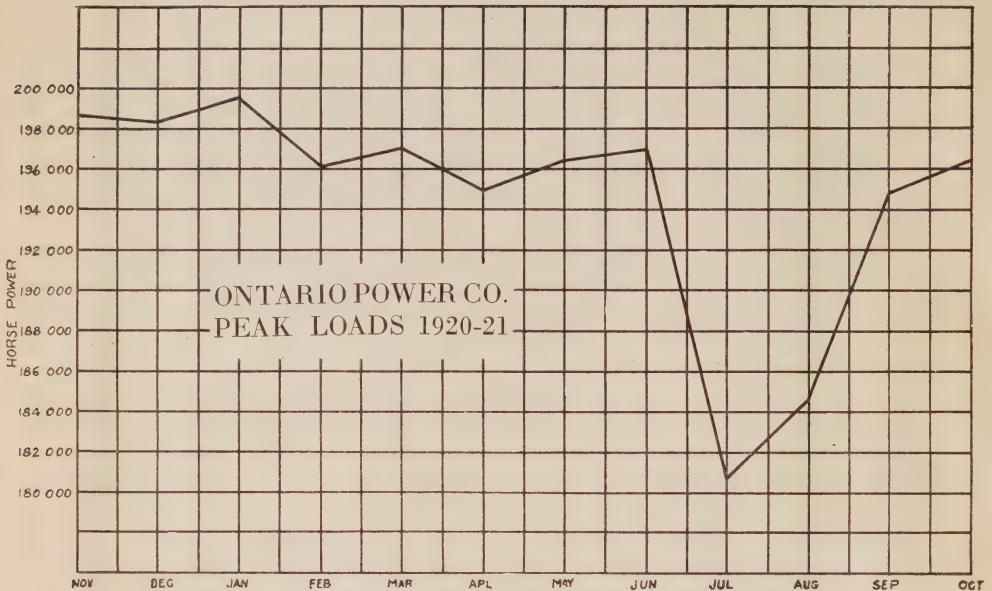
The replacement of the Voith relief valves was proceeded with and rebuilt valves were successfully installed and placed in operation on turbines 1, 4, 6, and 7. The new valves on these units have been reconstructed from those formerly used which were obsolete and no longer gave adequate protection for the turbines. They leaked badly before being rebuilt, wasting water which should have been used through the wheels for the production of power. The governors and governor pumps on Unit 1, 2, and 3 were rebuilt, having been in continuous operation since 1905. The governors and governor pumps on the other machines need little or no attention.

The large amount of miscellaneous auxiliary equipment so necessary for the operation of a Plant of this size was maintained in first class operating condition without any material expenditure.

In the Distributing Station the overhauling of the 60,000 Volt transformer banks was continued. All banks except one have now been cleaned and inspected and have had additional bracings provided for the coil ends. The oil has been filtered in all transformers. These transformers are now apparently in as good condition as when new.

While no extensive changes in the arrangement of generators, feeders, and busses were made during the past year, the steady growth of the Hydro-

Electric Power Commission's load has required some readjustment of equipment to give flexibility in operation and to keep the short circuit currents within safe limits. Additional generating capacity obtained from the Toronto Power Company and the Canadian Niagara Power Company handled through



this Station for the Hydro-Electric Power Commission has increased the number of generators paralleled on the busses at the Ontario Power Company's Plant to 20, and the power handled through the Station to 183,000 k.w. The scheme of connections used allows 125,000 k.w. of this output to be delivered to the Hydro-Electric Power Commission without concentrating more than four

**SUMMARY OF POWER GENERATED
THE ONTARIO POWER COMPANY OF NIAGARA FALLS—1920-1921**

Month	Maximum Generated Load Kilowatts	Generated Kilowatt- Hours	Kilowatt- Hours Sold in Canada	Kilowatt- Hours Exported	Average Generated Load Kilowatts	Load Factor Per cent.
Nov., 1920	150,500	90,537,500	62,580,700	27,956,800	125,748	83.5
Dec.	150,000	83,598,400	58,602,800	24,995,600	112,363	74.9
Jan., 1921	151,000	83,920,700	58,906,400	25,014,300	112,797	74.7
Feb.	148,500	75,620,400	52,592,800	23,027,600	112,530	75.7
Mar.	149,000	78,142,300	54,606,900	23,535,400	105,031	70.5
April	147,500	66,277,000	44,012,300	22,264,700	92,051	62.5
May	148,500	63,971,500	40,632,000	23,339,500	85,988	57.8
June	148,500	64,394,900	38,646,000	25,748,900	89,437	60.2
July	137,500	58,618,100	32,698,000	25,920,100	78,788	57.3
Aug.	140,000	65,775,400	36,217,000	29,558,400	88,408	63.1
Sept.	146,800	67,742,600	38,475,000	29,267,600	94,087	64.1
Oct.	148,000	71,226,100	41,107,600	30,118,500	95,734	64.7
Total . . .	.....	869,824,900	559,077,500	310,747,400	.....	....

The maximum generated loads are momentary peaks. The load factor is the average load divided by the maximum momentary peak and multiplied by 100.

(4) machines on any one bus.

The equipment owned by the Company in our various Customers' Stations was inspected and adjusted when necessary, but as most of it is used for metering apparatus only, no important changes or additions were required.

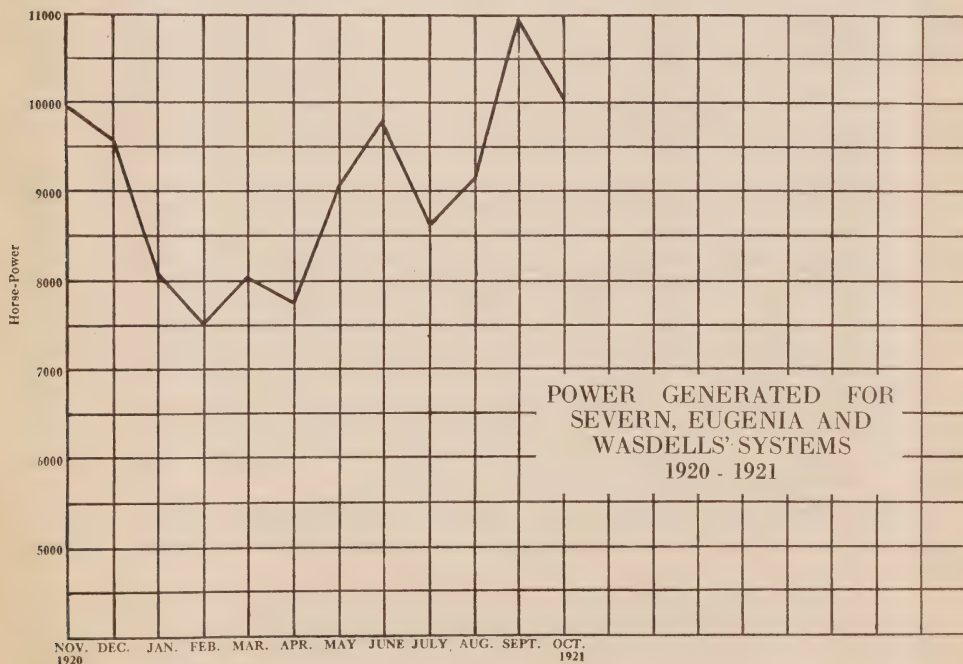
The total kilowatt-hours generated this year was about 15 per cent less than last year. The decrease in output has been entirely due to the changed characteristics of the load, which is not maintained at as high a figure as formerly during the period from 11 p.m. to 7 a.m. This is no doubt due to the smaller amount of night load used in manufacturing establishments, and no great improvement can be expected until business conditions are readjusted.

COMBINED NORTHERN SYSTEMS

The Eugenia, Severn, and Wasdells Systems have continued to operate with their lines interconnected, and these three systems are, therefore, frequently referred to in operation as the Combined Northern Systems.

The Commission's three power houses at Eugenia Falls, Big Chute, and Wasdells Falls, and the power house of the town of Orillia, at Swift Rapids, all operating in parallel, give much better regulation, hold speed steady, and permit sudden variations in load to be taken care of without disturbance to other customers. If trouble develops on any line between the different generating stations, or in case it is necessary to cut out a section for maintenance work, it is possible to give service to customers on each side of the section affected, thus cutting down interruptions to a minimum.

This parallel operation has permitted certain maintenance work to be carried out at the generating stations, it being possible to shut down part or all of a generating station during periods of light load in order to make necessary repairs and alterations without affecting service to customers, extra power being supplied by the other power houses.



The interconnection of these systems has been of special advantage this year in permitting an exchange of power from one to another.

Increasing loads on the Eugenia System, together with the hot summer, and low precipitation, made it desirable to conserve water in the Eugenia storage basin as far as possible. Off-peak power on the Severn and Wasdells Systems, that could not otherwise have been utilized, was transferred to the Eugenia System, allowing the Eugenia Plant, by operating at a lower load factor, to conserve water which it could then use during peak-load periods to assist the other plants in carrying the load of the Combined Systems; thus all three systems benefited by the arrangement.

In addition to the advantages enumerated, the combination of the three systems as an operating unit has permitted the maintenance staff to take care of work on the different systems with one organization, thereby effecting considerable economies.

SEVERN SYSTEM

On the Severn System a number of changes have been made in order to give more reliable and economical service.

At Barrie an additional bank of two 350 k.v.a. transformers has been installed to take care of increased load. The high-tension bus and the switching equipment have been altered, and the relay system has been improved to give better protection to equipment and service.

The village of Port McNichol was originally fed from a small high-tension station. When the C. P. Ry. elevator subsequently required power, this station was too small to supply the amount required, and equipment was installed in the power house of the C. P. Ry. elevator. On account of existing conditions at this point, it was considered advisable to abandon the small substation which had been built to furnish Port McNichol with power and to supply this village, as well as the elevator, from the one station. The maintenance staff, therefore, built a 2,300 volt line from the elevator station to connect with the village distribution system, and, because the C. P. Ry. elevator station voltage was 575, they erected a bank of low tension transformers on a pole structure outside the station, stepping up the voltage from 575 to 2,300. The switches, switchboard, meters, etc., were moved from the village station to the elevator station, and the maintenance staff took down the half-mile of high-tension line formerly supplying the village station. One of the power transformers from the village station was transferred to Coldwater, and the other transformer has been placed in reserve for use as a spare, or in case of trouble with similar transformers located at several stations on the system. By these changes the maintenance and operating costs for the two loads have been greatly reduced, and less capital is tied up in equipment.

At Bradford, the capacity of the transformers was considerably in excess of that required to carry the load, and as transformers of this size were needed at Durham, the three 100 k.v.a. single-phase transformers were removed from Bradford to Durham on the Eugenia System, and one three-phase 75 k.v.a. transformer has been installed in their place.

At Collingwood, at Cookstown, and at Victoria Harbor, 22,000 volt lightning-arresters have been installed, giving additional protection to these stations.

At the Big Chute Generating Station, especially designed and much larger drain valves were installed on the three original turbine casings. These will permit of the casings being drained more quickly, and will enable advantage

to be taken of short periods when the load is light to inspect and carry out any necessary maintenance work on the turbines. The grounds around the power house and operators' cottages have been cleaned up and levelled to some extent, and some additional work has been done on the road through the bush from the power house to the nearest railroad station, Severn Falls.

In October the supply cables from generators No. 1, No. 2 and No. 3 at the Big Chute burned out. Temporary connections were made to restore service, and new cable, with better insulation and greater carrying capacity, was ordered; these cables will be installed during November.

A considerable amount of work has been done on the transmission line between the Big Chute Power House and the Switching Station at Waubauskene. The 2/0 aluminum on "A" circuit has been taken down and 4/0 steel reinforced aluminum put up. This has been necessary, not only to take care of increased load, but also to permit one of the circuits on this double-circuit line being taken out of service for maintenance work without interrupting the supply. The additional capacity has also given better regulation. While maintenance men were engaged on this work, they made a careful inspection of all insulators, pins, and crossarms, replacing any that showed defects.

The right-of-way has been cleared of underbrush which was beginning to grow into the lines; at the same time the private telephone line on "A" circuit of this section has been changed from side-block to crossarm construction, all bad joints have been cleaned, and the line generally has been put in good condition. At points where the line crosses rivers or lakes, or goes through swamps, new and stronger structures have been erected, using insulators designed to withstand higher voltages and greater mechanical strain, thus enabling the number of poles formerly used to be reduced. Due to difficulty previously experienced in getting at certain poles during wet seasons, this change simplifies inspection and replacement of insulators, and by reducing the number of points of insulation, where breakdown might occur, as well as by using insulators with a greater factor of safety, the change has greatly increased reliability of service over this important section of line.

SEVERN SYSTEM—LOADS ON MUNICIPALITIES

Municipality	Load in Horsepower		Increase
	Oct., 1920	Oct., 1921	
Alliston.....	132.7	143.0	10.3
Barrie.....	750.6	828.4	77.8
Beeton.....	89.0	86.4	.....
Bradford.....	52.2	69.4	17.2
Camp Borden.....	139.4	234.5	95.1
C.P.R. Elevator.....	1,099.0	1,323.0	224.0
Coldwater.....	49.5	56.3	6.8
Collingwood.....	1,286.8	811.0	.....
Cookstown.....	55.0	75.0	20.0
Creemore.....	45.8	45.8	.....
Elmvale.....	111.2	124.6	13.4
Midland.....	1,362.1	1,108.5	.....
Penetang.....	900.8	504.0	.....
Pt. McNichol.....	36.0	44.7	8.7
Stayner.....	184.0	120.6	.....
Tottenham.....	31.2	38.2	7.0
Thornton.....	12.0	14.3	2.3
Victoria Harbor.....	48.2	46.0	.....
Waubauskene.....	26.1	24.0	.....

Some of this work was started last year, but as it has been carried out by the maintenance staff in intervals between more urgent work, the changes are not yet quite completed, although it is hoped to finish it at an early date.

Some of the insulators on the earlier transmission lines have shown defects, and are not considered as being up to present standards; special inspection was made of all these insulators, and the defective ones were replaced.

On some sections of the systems, where poles have been located in sandy soil, signs of butt-rot have been discovered in several cases, and the maintenance staff this year has made a special examination of poles, reinforcing any which had been thus weakened.

EUGENIA SYSTEM

Extensions have been made to the Eugenia System, high-tension lines having been run from Hanover to Kincardine, with taps off the main line to Teeswater and Wingham, and also to Holyrood Station, which feeds Ripley and Lucknow at 4,000 volts. The stations at Teeswater and Wingham, with a section of high-tension line, were first put into operation in December, 1920, and the balance of the extension in the early spring of 1921. A short section of high-tension line to the Walkerton Quarry Substation was also constructed. This was put into operation in February, 1921.

The high-tension line between Durham and Hanover was double-circuited, giving better regulation and further assurance of continuity of service.

Between Flesherton and Hanover the telephone line was double-circuited, allowing the telephone system to be split into two sections, as the number of telephones on this line was overloading it. This has naturally improved communication and facilitated operation and maintenance work.

At Priceville a new station was put into operation in March, 1921.

At Hanover an additional 3-phase 750 k.v.a. transformer was installed in the Spring of 1921, and certain alterations were made in the station to take care of increasing load.

At Durham, due to change of load, three 50 k.v.a. transformers were removed and replaced by three 100 k.v.a. transformers taken from Bradford Substation.

At Orangeville Substation three 150 k.v.a transformers were removed for use at Walkerton Quarry Substation. Three 100 k.v.a. transformers, which had been released from Amherstburg Station on the Essex System, were installed here, the smaller size being sufficient to take care of the load.

At the Eugenia Generating Station, the usual maintenance work was carried out to keep hydraulic and electrical equipment in good condition. A considerable amount of special work was done on No. 1 turbine, replacing worn parts and at the same time making changes in design with the object of increasing the efficiency and capacity of the unit.

The telephone equipment at the power house, and also at some of the substations and switching stations, was remodelled and the most up-to-date apparatus installed in order to protect operators and instruments.

The maintenance staff made a special inspection of insulators, pins and crossarms, and any which showed defects were replaced. High-tension line transpositions of the old type were changed over to the new standard type to eliminate trouble experienced through wires striking together in high winds, when loaded with sleet.

The transmission lines suffered considerable interference through road work being carried out by the various authorities; in some cases lines were damaged and service interrupted through blasting, while in other cases poles and lines had to be moved because of changes in roadway.

EUGENIA SYSTEM—LOADS ON MUNICIPALITIES

Municipality	Load in Horsepower		Increase
	Oct., 1920	Oct., 1921	
Arthur.....	126.0	121.0	.....
Carlsruhe and Neustadt.....	104.5	170.2	65.7
Chatsworth.....	28.6	24.0	.....
Chesley.....	247.0	263.2	16.2
Dundalk.....	104.5	87.0	.....
Durham.....	130.0	512.0	382.0
Elmwood.....	58.0	45.5	.....
Flesherton.....	55.4	47.5	.....
Grand Valley.....	63.6	65.0	1.4
Hanover.....	727.8	1,441.0	713.2
Holstein.....	9.6	9.6	.....
Hornings Mills.....	5.	5.	.....
Markdale.....	90.6	88.4	.....
Mt. Forest.....	192.7	156.4	.....
Orangeville.....	144.5	167.5	23.0
Owen Sound.....	1,340.0	1,402.0	62.
Shelburne.....	162.2	136.7	.....
Tara.....	53.6	53.6	.....

Eugenia System—New Municipalities

Municipality	Load in Horsepower		Increase	Date Connected
	Initial	Oct., 1921		
Kincardine.....	76.4	115.2	38.8	Mar. 31, 1921
Lucknow.....	26.8	87.0	60.2	Jan. 12, 1921
Priceville.....	5.0	8.5	3.5	Mar. 17, 1921
Ripley.....	40.2	45.5	5.3	Jan. 13, 1921
Teeswater.....	30.	103.4	73.4	Dec. 19, 1920
Wingham.....	250.	364.6	114.6	Dec. 20, 1920

WASDELLS SYSTEM

The Wasdells System operated throughout the year in a satisfactory manner, but with little to report outside of the usual routine. Very few interruptions were experienced on the system, which operated in parallel with the Orillia Plant at Swift Rapids, and with the Big Chute and Eugenia Falls Generating Stations. The usual maintenance work was carried out on station equipment and lines in order to keep them in efficient condition. Along the routes of the lines a considerable amount of tree-trimming was done to keep branches from coming in contact with wires and thereby causing damage and interruption to service.

At Kirkfield Station a more efficient telephone system was installed and the metering equipment was remodelled.

At the Beaverton Substation the roof and the parapet walls were overhauled and put in good weather-proof condition.

WASDELLS SYSTEM—LOADS ON MUNICIPALITIES, 1920-1921

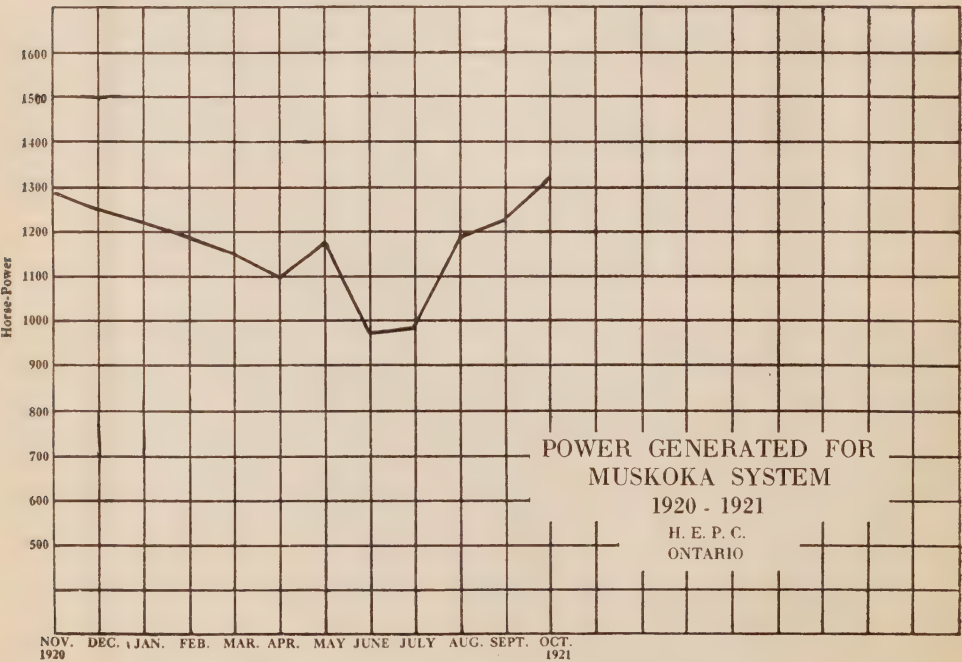
Municipality	Load in Horsepower		Increase
	Oct., 1920	Oct., 1921	
Beaverton.....	88.4	103.2	14.8
Brechin.....	81.0	58.4	.....
Cannington.....	101.8	72.3	.....
Kirkfield.....	15.6	17.4	1.8
Sunderland.....	75.5	67.0	.....
Woodville.....	89.5	80.4	.....

MUSKOKA SYSTEM

The service on the Muskoka System suffered very few interruptions throughout the year. Blasting for road work caused some damage to lines and interruption to service, but no serious trouble was experienced. At the river crossing at Bracebridge the transmission line poles were reinforced, and

MUSKOKA SYSTEM—LOADS ON MUNICIPALITIES

Municipality	Load in Horsepower		Increase
	Oct., 1920	Oct., 1921	
Gravenhurst.....	611.	341.8	.....
Huntsville.....	655.5	872.6	217.1



there was the usual amount of line inspection to forestall trouble developing. Other routine maintenance work was carried out on the system generally.

At the generating station at South Falls, the generator coils were painted, turbines inspected and worn parts repaired, and some maintenance work was done on the pipe lines and the gate house.

ST, LAWRENCE SYSTEM

The close of the current year finds the St. Lawrence System with double the number of customers being served that were supplied at the beginning of the year, accompanied, of course, by a substantial increase in high-tension mileage. The new customers, with the dates on which they were first served are as follows:—

Williamsburg, December 24th, 1920.

Alexandria, January 18th, 1921.

Apple Hill, February 22nd, 1921.

Martintown, May 25th, 1921.

Lancaster, May 25th, 1921.

Cornwall Pulp & Paper Co., May 26th, 1921.

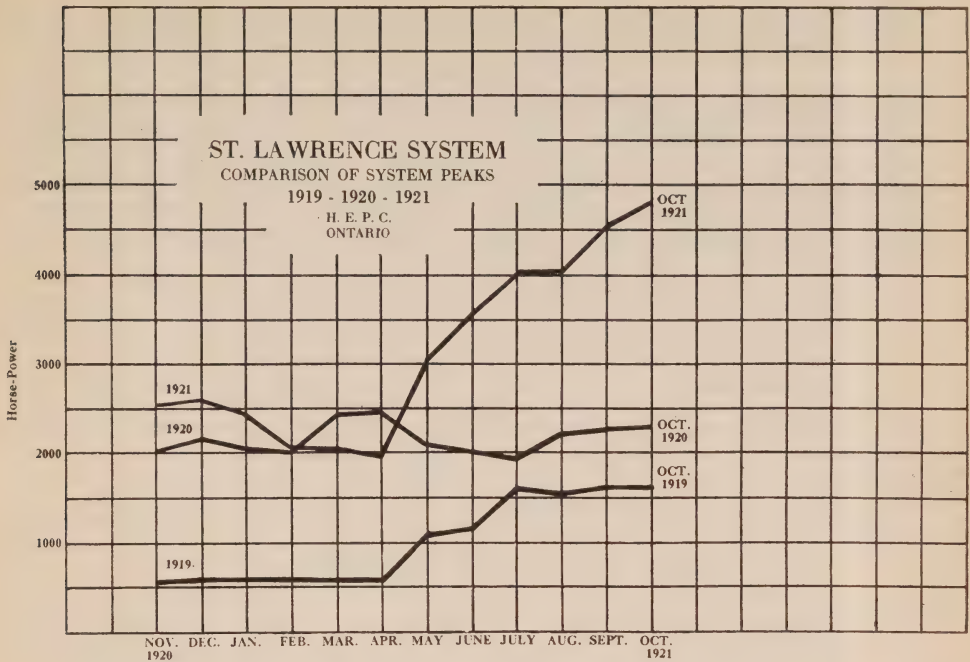
Williamsburg is an old "Hydro" customer, but until December 24th, 1920, was served through a low-tension line from Morrisburg, the power for this purpose being purchased by the Commission from Morrisburg. On the above date a new station at Williamsburg was connected to the 26,000 volt line between Morrisburg and Winchester. It is an unfortunate fact that owing to transformer failures, Williamsburg has had to revert to its original supply from Morrisburg on two different occasions while its transformer was returned to the factory and repaired. On the second occasion, the design of the transformer was radically changed, so that further trouble from the same source is not expected.

ST. LAWRENCE SYSTEM—LOADS ON MUNICIPALITIES

Municipality	Load in Horsepower		Increase
	Oct., 1920	Oct., 1921	
Brockville.....	1,048.2	1,038.8	.....
Chesterville.....	130.0	132.0	2.
Howard Smith Paper Co.....	725.2	1,246.6	521.4
Prescott.....	219.8	223.8	4.
Williamsburg.....	17.6	6.7	.....
Winchester.....	95.8	90.4	.....

St. Lawrence System—New Municipalities.

Municipality	Load in Horsepower		Increase.	Date Connected
	Initial	Oct., 1921		
Alexandria.....	132.	158.	26.	Jan. 18, 1921
Apple Hill.....	18.7	14.7	.....	April 22, 1921
Cornwall Pulp and Paper Co..	1,327.	1,880.7	553.7	May 26, 1921
Lancaster.....	9.4	22.7	13.3	May 25, 1921
Martintown.....	11.6	10.8	.....	May 25, 1921
Maxville.....	34.8	32.	.....	Feb. 22, 1921



Maxville is, for the present, fed from a low-tension line from Apple Hill Station, but provision has been made for a 26,000 volt source of supply when occasion requires it. A description of these stations will be found in another section of this report.

With the exception of the Cornwall Pulp and Paper Company, which is supplied by a short line from Cornwall, these new customers' loads are, as yet, comparatively small, and the Commission has endeavored to give them satisfactory service without high operating costs. It is, therefore, interesting to note that this additional work has been undertaken and carried out with no increase in staff.

A number of interruptions to customers west of Morrisburg has been necessary in order to move poles at the request of the Department of Public Highways. A large number of poles between Morrisburg and Prescott were moved, section by section, new poles being set in many cases with complete equipment ready for the transference of the conductors. In this way, relatively to the amount of work done, very short interruptions resulted.

RIDEAU SYSTEM

During the past year little trouble of any kind has been experienced on the Rideau System. The comparatively new stations and lines have proved easily able to maintain continuous service under the existing conditions, and the stream flow at High Falls is ample to carry the load. The difficulty experienced for very considerable periods by the Rideau Power Company in supplying power in accordance with its contract with the Commission did not result in any inconvenience to the municipalities which depend upon the Rideau System for power.

A station to serve the Villages of Balderson and Lanark was put into operation on December 29th, Lanark being served by a low-tension line from

Balderson, through which passes the 26,000 volt line between Perth and High Falls. A description of this station and line will be found elsewhere in this report.

The installation of the Tirrell voltage-regulator at High Falls has steadied the system voltage and practically eliminated the small variations, due to rapid load fluctuations, which are so difficult to avoid when operating under hand control. The addition of a hand control rheostat, which will shortly be made, will complete this regulator and enable the attendants to adjust the regulated voltage whenever changing system conditions warrant such action.

RIDEAU SYSTEM—LOADS ON MUNICIPALITIES.

Municipality	Load in Horsepower		Increase
	Oct., 1920	Oct., 1921	
Carleton Place.....	694.	769.	75.4
Smiths Falls.....	1,052.	713.	.....
Perth.....	558.	522.7	.....

RIDEAU SYSTEM—New Municipalities

Municipality	Load in Oct., 1921	Date Connected
Lanark.....	38.8	Sept. 29, 1921

THUNDER BAY SYSTEM

During the past year the change-over was made on this System whereby the supply of power from the Kaministiquia Power Company to Port Arthur was discontinued, and this municipality was connected through the new transformer station and transmission line to Cameron Falls generating station. The load taken by the Port Arthur Commission increased during the fiscal year by almost 25 per cent.

On December 21st, 1920, the first unit at Cameron Falls (13,500 horse power capacity) was put into service, as well as the new transmission line to Port Arthur and the transformer station at Bare Point, near Port Arthur. The plant and lines were turned over to the Operating department on the above date, power being transmitted temporarily at 60,000 volts.

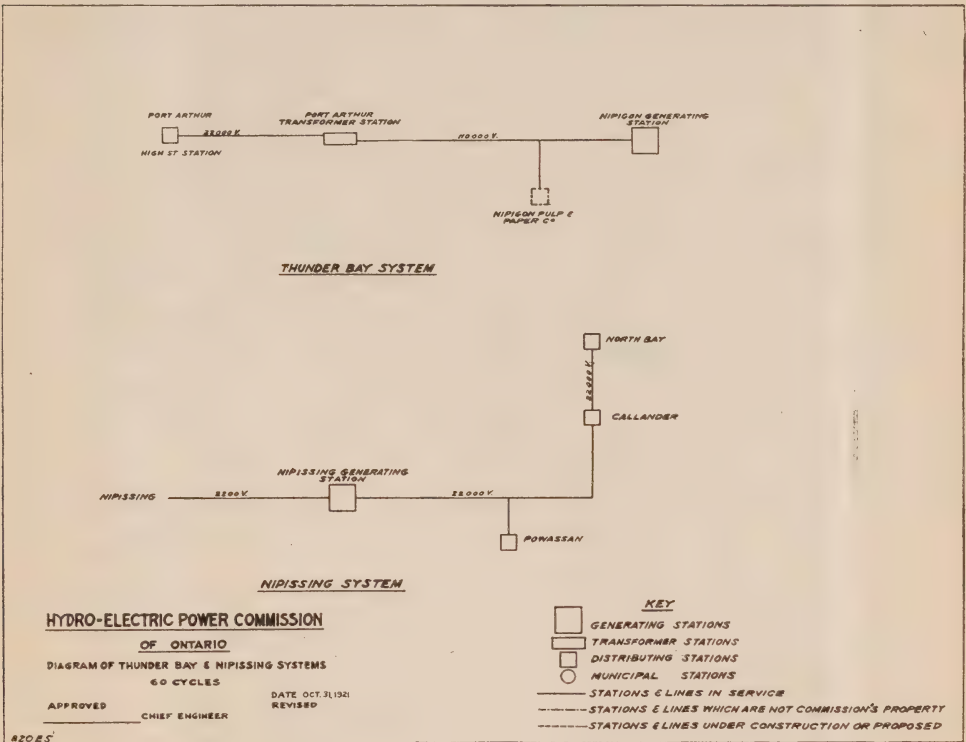
The second unit was put into service about March 15th, 1921, the original unit having been run continuously from December 21st, until that date. Since then, the Generating Station has been operated with either or both machines in service, depending upon load and water conditions. During the earlier period, and for some time after, the electric control and switching equipment was partly temporary, the Construction Department meanwhile working on the permanent control and switching equipment.

On August 7th, 1921, the permanent control and switching equipment was placed in service and the transmission voltage was raised to 110,000 volts. Necessary arrangements and changes were also made for this voltage at the receiving end.

The Operating Department has gradually taken over equipment as installed, and at the end of the fiscal year 1921 the work on the present station with two complete units was practically finished.

The telephone equipment at both ends of the transmission lines and at the section points has been designed and supplied through the Operating department. This equipment is not yet completely installed.

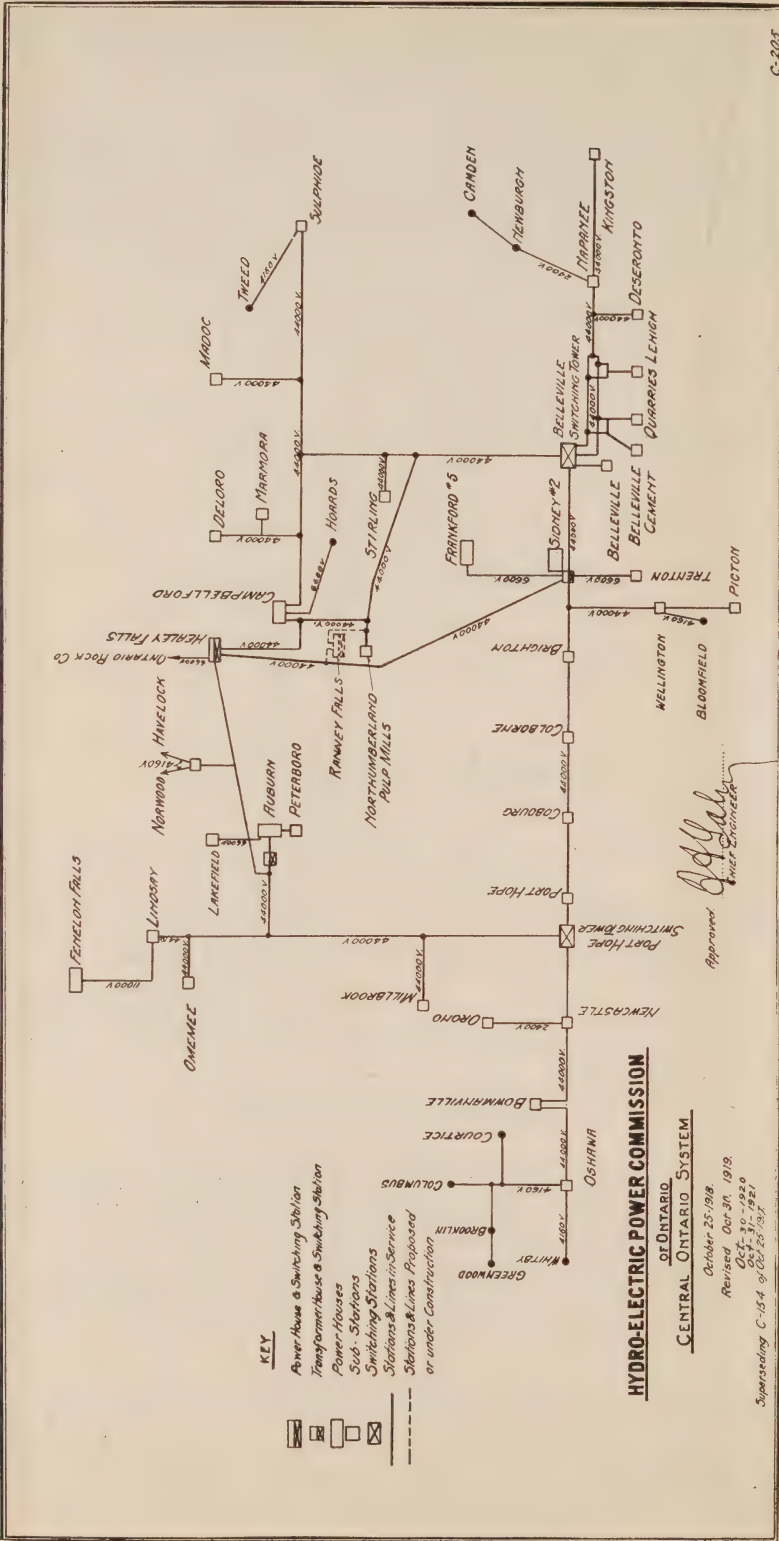
Considering the handicap incident to operating the generating station while a large amount of construction work was going on, together with the fact that it was necessary to organize a complete new staff for operation and maintenance of stations, and for the maintenance and patrol of lines in a sparsely settled and unfavorable locality, extremely good service has been given, which should be maintained and improved as time goes on.



OTTAWA SYSTEM

During the past year, the load on the Ottawa System has increased to a considerable extent, the load in October, 1921, amounting to 9,098 horse power, compared with 7,640 horse power in October of the previous year. The Commission made arrangements under the contract with the Ottawa and Hull Power & Manufacturing Company for the supply of additional blocks of power to meet the local Commission's increasing demand, and further increases have also been provided for.

Owing to the location of the generating station being so near to point of supply, there have been practically no interruptions or disturbances in the supply of power to the local system, and service has been very satisfactory. This Commission has continued to maintain the equipment for metering the power supply, testing and calibrating it at intervals to insure accuracy.



CENTRAL ONTARIO SYSTEM

Throughout the past year the Operating Department, co-operating with the Hydraulic Department, has continued a systematic study of the stream flow and storage possibilities of the Trent River. Although the usefulness of these studies is lessened somewhat by the fact that the regulation of the flow of the Trent River is under the control of the Department of Railways and Canals, they assist in determining the best distribution of load on the different generating stations to give maximum output with water available. These studies, together with previous studies, and the large amount of hydrographic data available in connection with the Trent River and its tributary streams, enables the Commission to predict accurately the maximum stream flow which could be maintained without encroaching upon the levels necessary for navigation.

The shortage of water this fall was not as serious or as prolonged as it was last year, and with the addition of the Ranney Falls power development, now well under way, plenty of power will be available next year.

A very unusual accident, coupled with a curious coincidence of circumstances, caused a slight shortage of power for a few days during the month of June. While one of the turbines was being overhauled, the bottom stop log, approximately 28 feet under the water surface at the head-works, broke, and allowed the water to enter the turbines. This unfortunately occurred in the short interval of time during which the manhole cover was off the turbine, giving the water free entrance into the power house, where it did considerable damage to equipment, causing some delay in placing the plant back into service. Fortunately, the Commission's arrangements with the Town of Campbellford and the Peterboro Hydraulic Power Company, of Peterboro, enabled them in a very short time to carry the system load without Healey Falls, the accident having happened at a time when plenty of water was available in the river.

It might be noted that the arrangements with the Peterboro Hydraulic Company had been concluded early in the year in order to provide a source of power to meet unlooked for contingencies as well as possible water shortages, while a renewal of the contract with the Town of Campbellford was at that time under negotiation and was concluded shortly afterwards, the amount of power contracted for being approximately 1,200 k.w., payment for which is based on both the demand and the kilowatt-hours consumed.

The thorough overhauling of the high tension lines and their reinsulation with insulators of modern design has effected such an improvement as to enable the Commission to make substantial reductions in the patrol staff, and in two cases this rearrangement of patrolmen led to the combination of the duties of operator and patrolman. The first of these was at Deseronto, where an arrangement existed with the town by which the Commission paid a portion of the salary of two operators who acted both as station operators and pump house operators for the town. This was discontinued, and the patrolman was allotted the duties of operator. The second case was at Cobourg, a "one man" substation, at which the operator now acts as a patrolman also. Although plenty of time has been given to test this method, no drawbacks have become apparent as yet, and it is expected that this economy can be considered as permanent.

During the past year a problem of some years' standing was solved by successfully designing a brake for the vertical shaft generators on the system, which, owing to the slight leakage in the turbine gates, could not be brought to a standstill without applying an electrical short circuit. One of the new

CENTRAL ONTARIO SYSTEM—LOADS ON MUNICIPALITIES

Municipality	Load in Horsepower		Increase
	Oct., 1920	Oct. 1921	
Belleville.....	1,689.	1,943.7	254.7
Bloomfield.....	54.	22.7	.....
Bowmanville.....	1,206.	1,119.3	.....
Brighton.....	122.	97.3	.....
Brooklyn.....	134.	98.5	.....
Cobourg.....	804.	970.5	166.5
Colborne.....	109.	109.3	.3
Deseronto.....	302.	250.6	.....
Kingston.....	1,707.	2,506.7	799.7
Lakefield.....	161.	156.8	.....
Lindsay.....	1,158.	1,375.3	217.3
Madoc.....	131.	143.4	12.4
Millbrook.....	34.	40.7	6.7
Napanee.....	374.	565.6	191.6
Newcastle.....	37.	48.2	11.2
Newburg.....	273.	386.	113.0
Omeme.....	40.	90.3	50.3
Orono.....	37.	48.2	11.2
Oshawa.....	3,307.	3,493.2	186.2
Peterborough.....	3,950.	4,886.	936.0
Picton.....	295.	268.	.....
Pt. Hope.....	405.	575.	170.
Stirling.....	134.	107.2	.....
Trenton.....	593.	671.5	78.5
Tweed.....	92.	106.5	14.5
Wellington.....	87.	63.0	.....
Whitby.....	424.	509.3	85.3

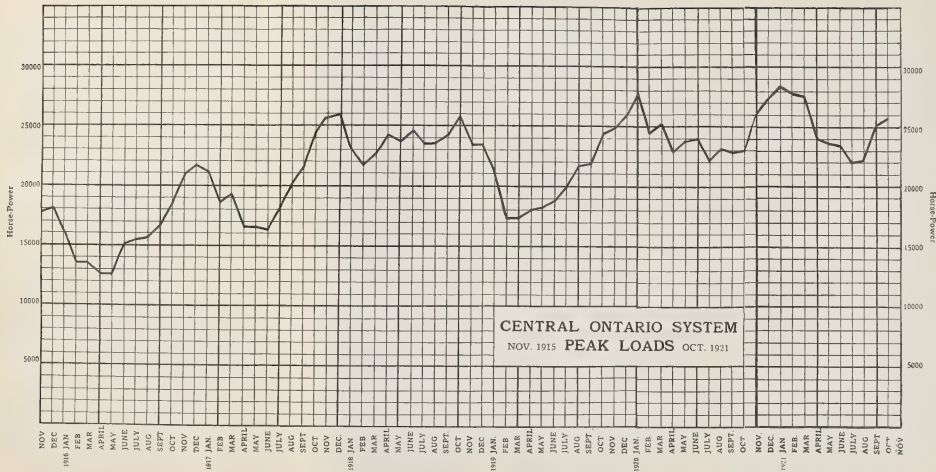
Central Ontario System—New Municipalities

Municipality	Load in Horsepower		Increase	Date Connected
	Initial	Oct., 1921		
Havelock.....	46.0	71.4	25.4	Jan. 13, 1921
Marmora.....	35.5	49.5	14.0	Dec. 14, 1920
Norwood.....	29.5	37.5	8.0	Jan. 12, 1921

brakes has been tried out and proven quite satisfactory, and will contribute considerably to the efficient and safe operation of these machines. Brakes on the remaining generators will be installed very shortly.

Owing to the lack of continuous attendance at Newcastle Substation, the electrolytic lightning arrester was removed and replaced by a water barrel arrester, which requires practically no attention other than the occasional addition of water to compensate for evaporation. As far as can be observed the new arrester, made up on the job, is functioning very satisfactorily.

At Peterboro the operation of the street railway has been carried on under difficult conditions, and the need for a new station has been felt for some time. The construction of such a station has been delayed owing to present high prices of equipment and to the necessity of considering this installation in connection with the proposed new municipal station. From an operating standpoint, it is very desirable that the new railway station be combined with the new municipal station, which is under consideration by the Peterboro Civic Utilities. As nothing has been definitely settled regarding the construction of



the new municipal station, the Commission is planning temporary arrangements for improving service until a permanent plan has been decided upon.

The old air blast transformers at Fenelon Falls suffered somewhat from lightning during the past season, although the resultant damage did not in any way impair the service to the system or any points thereof, and the coils suffering damage were repaired without difficulty and transformers restored to service.

The following new stations, a description of which will be found in another section of this report, have been put in operation on the Central Ontario system.

Marmora, Dec. 14th, 1920, to supply the village of Marmora.

Norwood, Jan. 12th, 1921, to supply the village of Norwood and, by a low tension feeder, the village of Havelock also. Both of these stations have been operating satisfactorily, there being no incidents in connection with either worthy of mention.

On account of the increasing load at Oshawa, a third 1,500 k.v.a. transformer was put into service on March 15th, 1921, replacing the 750 k.v.a. transformer at this station, and bringing the total capacity to 3- 1,500 k.v.a. transformers and 1- 750 k.v.a. transformer.

Summarizing the year's operation, an improvement in stream flow over last year is noticeable; very marked improvement in line insulation is apparent, resulting in reduction in patrol staff and maintenance charges, and, a matter of much greater importance, in a very noticeable reduction in the number of interruptions; all of which is very gratifying.

NIPISSING SYSTEM

The Nipissing System had a successful year with increasing load. Satisfactory service was given to customers and there were few interruptions.

In order to take care of demands for additional power, changes were made at the Nipissing power house. One of the turbines was remodelled in accordance with designs of the Commission's Hydraulic Department, and a new shaft, runner, gates, and gate mechanism were installed. A new 1400 k.v.a. generator with direct-connected exciter was installed on the remodelled turbine and the old 450 k.v.a. generator and exciter were removed. A new bank of three 900 k.v.a. transformers was installed at the power house in place of the 300 k.v.a. transformers previously in service. Some alterations were made to switchboard and machine rheostats in connection with these changes, giving better control with greater safety for the operator. The installation of the larger equipment at the power house entailed considerable work. In order to transport the heavy equipment into the power house, a roadway bridge over the pipe-line near the power house had to be rebuilt.

During the time that the one unit at Nipissing power house was shut down for rebuilding the turbine and installing the larger generator, the system load was carried by the remaining unit assisted by the Commission's steam plant in North Bay, and service was maintained without curtailing the supply to any customer. The cost of operating the steam plant, however, is high and added considerably to the system operating costs. Since the installation of the larger generator at the hydro-electric plant, it has not been necessary to use the steam plant even for peak loads.

A considerable amount of maintenance work was done on the wood-stave pipe-line to prevent it from settling out of line, and to prevent leaks due to increasing age. The work was successful and leakage has been reduced to a negligible amount.

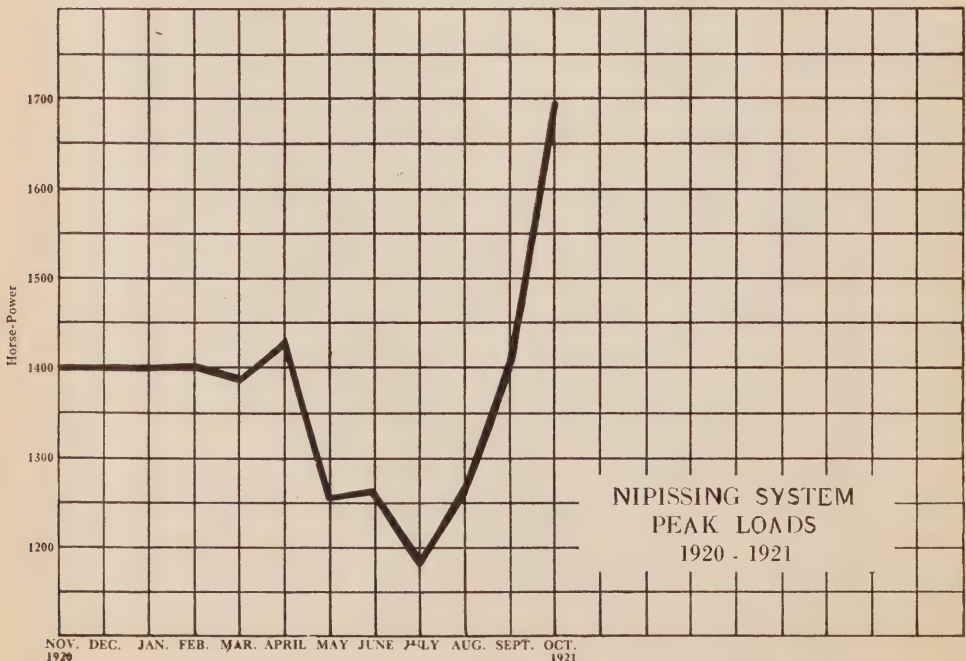
Owing to the increasing loads on the system, special attention has been given to conserving and efficiently using the water supply for power purposes. A good deal of maintenance work was done during the year on the storage dams built last year at different points to hold the Spring run-off for use during low-water periods. Leaks had developed in some of the wing walls due to frost, heaving of ice, etc. The wing wall at the main dam at the power house developed a serious leak after a Spring freshet, and this wall was practically rebuilt. The earth-fill near the head blocks was reinforced and rip-rapped.

Automatic water-level recorders were installed at various controlling points on the river to facilitate studies of levels and flow, so that the river may be regulated to the best advantage.

The usual maintenance work has been done at the plant to keep equipment in efficient condition, and the walls of the power house, stables and store-rooms have been painted, etc.

At Powassan Substation the high-tension air-break switch was remodelled, making operation of the switch easier and safer.

The 22,000 volt transmission lines have been regularly inspected and the usual maintenance work carried out. Special inspection was made of types of insulators which have shown defects, and some of the more or less obsolete types were replaced. A number of poles were straightened where heaved out of line by frost and considerable underbrush was cleared away from beneath the transmission lines.



OPERATING DEPARTMENT—METER SECTION

The Operating Department maintains a Meter section for the calibration and maintenance of metering and protective equipment. All metering apparatus measuring customers' loads has been periodically inspected and kept in satisfactory operating condition. Since, in most cases, the Commission bills from graphic records only, it is essential that these records be accurate as well as continuous.

The line and feeder protective devices and all switchboard equipment are likewise calibrated and maintained by this Department, and this equipment has also been kept in the best condition. There has recently been placed in service on the Western Loop of the Niagara System the very latest type of balanced relay protection for high-tension transmission lines, which is one of the first installations of this type in this country. This installation was undertaken by our Station Maintenance Department and results are being watched with considerable interest.

The Operating department, Meter section, has a workshop which is available for the test and repair of meters, relays, and instrument transformers damaged in service. This class of work can very quickly be taken care of, especially in case of emergency. The shop also offers facilities for repairing and overhauling second-hand equipment, and a certain amount of second-hand metering equipment has been purchased and placed in good condition at a considerable saving over present-day prices.

A number of power factor surveys have also been made for municipalities at their request, and the department supplied men and equipment for other tests, such as pump-motor tests, and factory and mill load tests of various kinds. Every effort is being made to provide this service for municipalities at short notice and at as low a cost as possible.

EXPLANATORY STATEMENT RESPECTING THE ACCOUNTS

The Hydro-Electric Power Commission of Ontario believes that a satisfactory understanding of the manner in which the various operations of the Commission are financed will contribute greatly to the interest of those engaged either directly or indirectly with the work of the Commission.

In this section of its Annual Report dealing with the "Operation of the Systems" the Commission presents detailed financial statements which may easily be understood although, upon casual inspection, they might appear somewhat complex.

For the purpose of financial statement, the various systems are treated as quite separate units for each of which similar statements and details are given. Many of the pages which follow, therefore, simply repeat for each system the class of data which is presented for the first system dealt with, namely, the Niagara System. In order, therefore, to possess a ready grasp of all the figures presented in this and other similar reports of the Commission, all that is necessary is to have a true understanding of the financial procedure followed in connection with one system and with one municipality.

The accounts of the Hydro-Electric Power Commission of Ontario are subjected to a strict audit by Auditors specially appointed by the Provincial Government. The accounts of the individual municipalities are prepared according to approved and standard practice and are also duly audited. In fact, in preparing the various financial reports and statistical tables relating to all Hydro enterprises, the greatest care is exercised and all statements are presented in such form that they may be comprehensive and at the same time easily understood.

It is proposed here to explain briefly the general plan of the financial operations of the Commission and in the course of the explanation to illustrate by reference to specific data.

The Balance Sheet which immediately follows, exhibits the Assets and Liabilities of the Hydro-Electric Power Commission of Ontario in respect of all of its undertakings, except those of the "Central Ontario" and "Nipissing" Systems—which owing to special conditions are separately submitted—and also of the Ontario Power Company, Limited, the financial report of which is separately presented at the end of this third section of the Report.

It will be understood that this statement of Assets and Liabilities and the financial tables which follow relate to the properties constructed and operated by the Commission as trustees for the municipalities; and the balance sheets, operating reports and statistical data appearing in Section VIII, under the heading of "Municipal Accounts," refer to the operation of the municipalities' properties within the boundaries of those municipalities which have contracted with the Commission for their supply of electrical energy.

The whole Hydro-Electric undertaking of the municipalities, so far as finances are concerned, is operated in what may be termed two distinct divisions: first—the division which covers the generation, transformation, and transmission of electrical energy in wholesale quantities to municipalities. The equipment essential to this work is constructed, or otherwise provided, and also operated on behalf of the associated municipalities by the Hydro-Electric Power Commission of Ontario.

The second division comprises the various operations involved in the local distribution by various municipal utility commissions, within their respective

municipalities, of the electrical energy which they purchase from the Hydro-Electric Power Commission. The work performed by the various municipal commissions in their local distribution and sale of electrical energy is under the supervision of the Hydro-Electric Power Commission.

The ultimate source of all revenue—whether for the larger operations of the Hydro-Electric Power Commission or for the smaller local operations of the municipalities—is, of course, the consumer. The revenue collected from the service supplied by the municipalities is divided so as to pay for the power purchased from the Commission and also for the expense incurred by the local utility in supplying its customers.

The portion of the total revenue remitted to the Hydro-Electric Power Commission must be sufficient to pay the municipality's proportion of the expenditures made by the Commission on behalf of the municipality, in connection with the particular System to which the municipality belongs, in order to provide, transmit and sell to the municipality the agreed upon amount of power. This remittance to the Commission provides also for a Sinking Fund to liquidate the capital investment, and in addition a Renewal Reserve sufficient to rebuild—if necessary—the whole system within a period of 25 years. The Hydro-Electric Power Commission of Ontario obtains its revenue from power service—that is from the sale of electricity generated for and transmitted to the municipalities in bulk—and with this revenue operates and maintains its system and also creates the reserves just mentioned. Power service is given to each municipality "at cost."

All municipalities have current expenses to meet similar to the expenses of the Commission and have adopted the same sound financial procedure with respect to the operation of their local utilities. In other words, concurrently with the creation of funds to liquidate their debt to the Commission and provide a reserve to rebuild generating, transforming, and transmission systems, the municipalities are taking similar action with respect to their local hydro systems.

From the foregoing explanation it will be seen that the revenue obtained from "Hydro" light and power customers is sufficient to meet *all* operating and maintenance costs and capital charges in connection with (a) individual municipal investments and (b) collective municipal investments made through the agency of the Hydro-Electric Power Commission, and in addition there is provided within a period of 25 years, sufficient reserves to build anew—if necessary—the whole Hydro installation from the generating stations to and including the municipal systems.

It will be profitable to consider, very briefly, the basic principle upon which the whole Hydro project is founded. This is set out in the contracts under which the municipalities enter into the partnership of which the Commission acts as trustee. The rates at which power is supplied to the various municipalities vary with the amount of power used and the distance from the source of supply. The entire capital cost of the various power developments and transmission systems are pro-rated annually to the connected municipalities, according to the relative use made of the lines and equipment. Each municipality is required to assume responsibility for just that portion of capital employed in delivering electrical energy to it, together with such expenses as are incident to that particular portion of the investment. Municipalities are not charged with expenses connected with equipment or plant from which they derive no benefit or are in no way interested. The entire annual expense of operation, maintenance, administration, interest and sinking fund and full depreciation are paid out of revenue collected from the municipalities, through the medium of thirteen power bills rendered by the Commission each year. Power bills are rendered at an interim estimated rate each month during the year and a thirteenth bill—

or credit memorandum as the case may be—is rendered at the end of the year, when the Commission’s books are closed and the actual cost determined.* There is no burden on the taxpayers or on non-users and no avenue through which losses, should they occur, could be absorbed, except by a direct charge to the contracting municipalities for power supplied. It should be noted that the sinking fund on the debentures is treated as an operating expense and that, therefore, the municipalities are not only paying the interest on the investment, but are also paying off the principal by means of a sinking fund and, in addition, are providing for the perpetuity of the system through an adequate depreciation fund.

The results obtained by the annual adjustments of the Commission’s capital investment, operating expenses and fixed charges as they affect individual municipalities are clearly shown in the tables for the respective systems.

These financial statements are typical of others appearing in this section of the Commission’s Annual Report, and if their significance is fully appreciated there can be no misconception of the relationship of the municipalities to the Commission’s operations.

To further illustrate the foregoing explanatory comments a typical Operating Report is now submitted, viz., that of the Hydro-Electric Utility of the city of Windsor:

WINDSOR HYDRO SYSTEM

OPERATING STATEMENT FOR THE YEAR 1921

REVENUE

Revenue from Windsor Hydro customers, for year\$513,863.66

EXPENSES

Representative illustration of expenses incurred by Hydro-Electric Power Commission on behalf of a municipality in connection with the supplying of its electrical energy. These data really show—as determined by annual adjustment—what it costs the Commission to supply the municipality with its power. See Annual Adjustment Statement page 102 for the city of Windsor as follows:

Cost (pro. share) of generating and transforming at Niagara Falls, Ontario	\$61,640.42	
Cost (pro. share) of administering, maintaining and operating Commission’s transformer stations and transmission lines	26,881.32	
Interest on Windsor’s proportionate share of capital investment in stations and lines	34,101.45	
Renewal Reserves (pro. share) yearly provision for plant renewal purposes	15,708.69	
Contingencies (pro. share) yearly provision	952.73	
Payments to Sinking Fund (pro. share)	8,225.68	
		\$147,510.29

*The financial year for the Commission Accounts ends on October 31st. The financial year for the Municipal Accounts, however, ends on December 31st, and the Municipal Accounts are made up to this date, and so recorded in Section VIII.

Expenses incurred by a municipality through its utility commission in connection with the sale of electrical energy to consumers. Consult the section dealing with the Municipal Accounts

Operation, Maintenance and Administrative expenses, etc.*	\$229,905.30
Interest and fixed charges on Debenture Debt.	51,931.34
Depreciation charge	23,440.00
	<u>\$305,276.64</u>
Total expenses charged against the Revenue from customers of the Windsor System	\$452,786.93
Net Surplus for the Year	<u>\$61,076.73</u>

The city of Windsor situated at the extreme end of the Niagara System, 250 miles distant from source of power, Niagara Falls, Ontario, was connected to the System, October, 1914. This utility has fulfilled every monetary obligation imposed upon it by the Power Commission Act. With the close of the seventh year of operation its financial condition as set forth in the municipalities balance sheet (see Statement A, in Section VIII) stands as follows.

Total assets, \$1,400,599.98; total liabilities, \$1,041,966.65; reserves and surplus, \$358,633.33. The last mentioned figure comprises the following items:

Debentures paid	\$ 82,901.81
Sinking Fund Reserve (Local System).....	28,658.44
Reserve for Renewal of plant (local).....	78,051.74
Sinking Fund equity in Hydro-Electric Power Commission System	20,060.64
Surplus	148,960.70
	<u>\$358,633.23</u>

In addition to these Reserves the Hydro-Electric Power Commission of Ontario has collected from this Utility during the period under review the sum of \$99,808.31 which represents Windsor's proportionate share of Renewals Reserve retained by the Commission for purposes as hereinbefore mentioned.

*This includes \$56,204.59, representing the sum paid in 1921 by the City of Windsor for power purchased from a source other than the Commission.

HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO
Detailed Statement of Assets and Liabilities—31st October, 1921
POWER UNDERTAKINGS

Assets

Niagara System :	
Right-of-Way.....	\$1,511,125.19
Steel Tower Lines.....	4,660,395.96
Transformer Stations.....	8,533,621.45
Wood Pole Lines.....	2,619,113.58
	<hr/>
Rural Lines.....	\$17,324,256.18
	476,425.45
	<hr/>
	\$17,800,681.63

Niagara Power Development Works.....	
Expenditure to date on construction work at Niagara Falls.....	\$57,695,750.39
Purchase and Equipment of Stone Quarry at Walkerton (less depreciation written off).....	322,616.50
	<hr/>
	58,018,366.89

Thunder Bay System :

Power Development (Nipigon River)	\$5,637,973.84
Transmission Lines (Nipigon River—Port Arthur).....	567,606.36
Transformer Station (Nipigon River—Port Arthur).....	142,125.25
Transformer Station (Port Arthur) ..	88,976.21
Transmission Lines (Port Arthur) ..	29,476.46
	<hr/>
	6,466,158.12

Sewern System :

Power Development.....	\$652,252.43
Wood Pole Lines.....	569,977.42
Transformer Stations.....	184,563.97
	<hr/>
Rural Lines.....	\$1,406,793.82
	53.42
	<hr/>

St. Lawrence System :

Wood Pole Lines.....	\$462,694.68
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Liabilities

Provincial Treasurer :	
Cash Advances for Niagara and other Systems.....	\$39,515,930.33
Cash Advances for Niagara Power Development Works.....	53,040,674.52

Bank of Montreal :	
Cash Advances re Construction of Third Pipe Line on Ontario Power Company's property.....	1,200,000.00
Debentures issued to cover purchase of Capital Stock of Ontario Power Company of Niagara Falls.....	\$8,000,000.00
Interest accrued thereon.....	80,000.00
	<hr/>
	8,080,000.00

Debentures issued for the purpose of retiring the 1921 issue of the Ontario Power Company of Niagara Falls.....	\$3,200,000.00
Interest accrued thereon.....	67,856.16
	<hr/>
	3,267,856.16

Debentures issued to cover purchase price of Essex System.....	\$226,000.00
Interest accrued thereon.....	3,874.99
	<hr/>
	229,874.99

Debentures issued to cover purchase price of Thorold System.....	\$100,000.00
Interest accrued thereon.....	1,666.67
	<hr/>
	101,666.67

Debentures assumed :

Line to Brick Companies at Streetsville.....	\$4,522.59
Muskoka Power Development.....	42,251.79
	<hr/>
Interest accrued thereon.....	\$46,774.38
	1,668.83
	<hr/>
	48,443.21

Accounts payable.....	\$693,104.07
Bond Interest Coupons overdue but not presented.....	47,825.50
	<hr/>
	740,929.57

Transformer Stations.....	378,369.52	Insurance Department :		
Rural Lines.....	\$841,064.20 13,129.33	Outstanding claims and Awards.....	\$572,439.78	
Wasdell System :		Surplus.....	18,370.18	590,809.96
Power Development.....	\$141,884.68	Balances due to Municipalities in respect		
Wood Pole Lines.....	154,188.77	of amounts paid by them to 31st Oct-		
Transformer Stations.....	26,909.62	ober, 1921, in excess of the cost of		
		power supplied to them as provided		
		to be paid under Section 23 of the Act :		
Rural Lines.....	\$322,983.07 12,399.15	Niagara System.....	\$207,815.60	
Eugenia System :		Niagara Rural Lines.....	1,022.31	
Power Development.....	\$990,437.80	Savern System.....	2,705.54	
Wood Pole Lines.....	815,629.70	Eugenia System.....	2,758.90	
Transformer Stations.....	240,500.87	Muskoka System.....	1,290.35	
		Rideau System.....	3,505.68	
Rural Lines.....	\$2,046,568.37 2,095.23			219,098.38
Ottawa System :		Ontario Power Company of Niagara Falls :		
Meters, etc.....	\$1,009.57	Monies held for purpose of Sinking		
Rural Lines.....	4,697.50	Funds.....	\$163,271.71	
Muskoka System :		Current Account.....	39,748.07	
Power Development.....	\$148,320.67			203,019.78
Wood Pole Lines.....	54,313.44	Reserves for Sinking Fund :		
Transformer Stations.....	9,896.85	Municipalities—		
Rideau System :		Niagara System.....	\$957,717.89	
Power Development.....	\$756,284.88	Niagara Rural Lines.....	50,607.68	
Wood Pole Lines.....	260,653.90	Thunder Bay System.....	21,264.86	
Transformer Stations.....	57,065.67	Savern System.....	59,961.22	
Bonnechere River Storage System :		St. Lawrence System.....	15,197.50	
Round Lake Dam.....	\$20,292.68	St. Lawrence Rural Lines.....	195.11	
Golden Lake Dam.....	11,092.81	Wasdell System.....	11,169.51	
Interest on above to 31st December,		Wasdell Rural Lines.....	611.43	
1916.....	2,780.25	Eugenia System.....	13,156.54	
Essex System :		Eugenia Rural Lines.....	144.71	
Purchase price of System.....	\$226,000.00	Muskoka System.....	750.60	
Additional Expenditure to date.....	149,141.34	Ottawa System.....	88.62	
		Bonnechere Storage System.....	3,194.24	
				1,134,059.91
		Service and Office Buildings—		
		Service Buildings.....	\$42,074.56	
		Office Buildings.....	53,356.47	
				95,431.03

HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO

Detailed Statement of Assets and Liabilities—31st October, 1921—Continued

POWER UNDERTAKINGS—Continued

<i>Assets</i>		<i>Liabilities</i>	
Thorold System :		Reserves for Renewals :	
Purchase Price of System.....	\$100,000.00	Contributed by Municipalities—	
Less Credit Balance on Current Ac-		Niagara System.....	\$2,222,365.90
count.....	55,979.20	Niagara Rural Lines (Operated	
		by Commission).....	6,356.37
Service Buildings :		Thunder Bay System.....	41,302.22
Service Building and Equipment,		Severn System.....	227,347.21
Toronto.....	\$457,656.23	St. Lawrence System.....	76,359.37
Equipment of Storehouse and Garage,		St. Lawrence Rural Lines.....	10.12
Hamilton.....	9,527.55	Wasdell System.....	38,973.73
Pole Yard and Equipment, Cobourg.	20,430.82	Eugenia System.....	181,830.21
Office Buildings :		Muskoka System.....	25,471.39
On University Avenue, Toronto.....	\$494,793.77	Rideau System.....	38,365.47
Corner Elm Street and Centre Avenue,			
Toronto (Less Mortgage \$40,000.00)	118,882.40	In respect of Service and Office Buildings—	
Office Furniture and Equipment :		Service Buildings.....	\$89,005.13
At Toronto Office.....	\$110,518.52	Office Buildings.....	9,695.44
At Hamilton Office.....	1,709.59		
At Electrical Inspection Offices.....	5,002.86	Reserves for Contingencies :	
Library.....	3,080.62	Niagara System.....	\$24,875.01
Stationery and Office Supplies.....	26,295.51	Thunder Bay System.....	4,424.66
Automobiles and Trucks.....		Severn System.....	7,128.08
Inventories :		St. Lawrence System.....	3,372.65
Construction and Maintenance, Tools		Wasdell System.....	240.64
and Equipment.....	\$258,897.24	Eugenia System.....	12,079.58
Construction Material and Sundry		Muskoka System.....	1,911.14
Supplies.....	899,393.42	Rideau System.....	1,183.31
Maintenance Material and Supplies..	225,200.71		
Capital Stock of Ontario Power Company		Surplus of Interest :	
of Niagara Falls.....	1,383,491.37	On General Account—	
Ontario Power Company of Niagara Falls :		Reserved for the benefit and credit of	
Re 6 per cent. 1941 Debentures issued	8,000,000.00	Municipalities which have paid	
by the Commission for the pur-		Sinking Funds — being the Inter-	
pose of retiring the 1921 issue of		est return from the investment of	
the Power Company.....	\$3,200,000.00	such funds in excess of the 4 per	
		cent. interest already allowed b/	
		the Commission thereon.....	29,751.46
			2,858,381.99
			98,700.57
			55,215.07
			67,694.22

Interest accrued thereon.....	67,856.16	
Expenditure in connection with Construction of Third Pipe Line	\$3,267,856.16	
Accrued Interest on \$8,000,000 Bonds issued by the Commission to cover the Purchase Price of the Capital Stock of the Power Company...	3,515,094.93	
	80,000.00	
Sinking Fund :		6,862,951.09
On deposit with Provincial Treasurer, including interest allowed thereon	\$608,284.91	
Invested in Securities of the Province of Ontario, which are deposited with the Provincial Treasurer— par value \$278,500.00.....	276,045.10	
Investments :		884,330.01
Debentures of the Hydro-Electric Power Commission purchased (issued in connection with the purchase of Capital Stock of the Ontario Power Company) par value \$115,000.00.....	\$79,844.50	
Interest accrued thereon.....	1,150.00	
		\$0,994.50
Cash :		
In Banks.....	\$1,397,163.21	
In hands of employees as advances on account of expenses.....	233,713.24	
In Bank to pay Bond Interest Coupons overdue but not presented.....	47,825.50	
		1,678,701.95
Accounts receivable :		
Due by Municipalities in respect of Construction work and supply sales.....	\$303,613.52	
Less Reserve for doubtful accounts...	5,885.20	
		\$297,728.32
Due by Municipalities in respect of Power Accounts.....	754,290.59	

HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO
Detailed Statement of Assets and Liabilities—31st October, 1921—Continued
POWER UNDERTAKINGS—Continued

<i>Assets</i>	<i>Liabilities</i>
<p>“Sinking Fund and Interest” and “Consumers” Accounts owing in respect of Rural Lines.....</p> <p>Due by Town of Renfrew for Water from Bonnechere Storage System for Power purposes.....</p> <p>Balances due by Municipalities in respect of the Costs of Power supplied to them as provided to be paid under Section 23 of the Act :—</p> <p>Niagara System... \$190,814.41</p> <p>Severn System... 56,175.48</p> <p>St. Lawrence Sys- tem..... 18,635.74</p> <p>Waddell System... 19,117.39</p> <p>Eugenia System... 103,477.55</p> <p>Muskoka System.. 6,272.07</p> <p>Rideau System.... 4,088.85</p> <p>Amount recoverable out of future revenues from the City of Port Arthur and other Power Customers on the Thun- der Bay System—being that portion of the interest on the Nipigon Devel- opment which was deferred as at 31st October, 1921.....</p>	<p>37,325.06</p> <p>6,142.92</p> <p>18,708.83</p> <p>1,512,777.21</p> <p>18,638.43</p>
<p>Central Ontario System, due thereby.....</p> <p>Expended in connection with Power In- vestigations, Surveys, Reports, etc. and on Electrical Inspection— Less: Cash Advances by the Province on account of the above (includ- ing \$10,866.96 brought forward from 1920).....</p> <p>Balance carried as receivable from the Province of Ontario.....</p>	<p>\$160,022.02</p> <p>135,935.82</p> <p>24,086.20</p>

Work in Progress :

Expenditure on account of various
Systems chargeable upon com-
pletion to—

Sundry Municipalities.....	\$10,553.91
Capital Construction.....	124,856.20
Operating and Maintenance Expenses.....	3,971.14
Electrical Inspection (Rules and Regulations).....	5,313.72

Insurance Unexpired.....

144,694.97
112,694.33

\$110,642,692.83

RADIAL RAILWAY UNDERTAKINGS

Sandwich, Windsor and Amherstburg Railway :

Cost of Capital Stock and Plant Assets of Company.....	\$2,039,000.00
Advances for Construction and Exten- sions and Operations \$600,000.00 Less Current Account..24,691.23	

575,308.77

Guelph Radial Railway :

Purchase price of Railway.....	\$150,000.00
Proceeds of sale of Bonds \$116,000.00	
Less Cash held by the Commission.....	69,641.98

46,358.02

Port Credit to St. Catharines Radial Railway :

Expended upon purchase of Right-of- Way.....	\$72,386.77
Construction materials purchased..	304,254.86
Surveying, Engineering, Administra- tive Expenses and Interest.....	100,660.58

477,302.21

Toronto to Port Credit Radial Railway :

Expended upon purchase of Right-of Way.....	\$632,291.68
Surveying, Engineering, Administra- tive Expenses and Interest.....	103,473.02

735,764.70

In respect of the Sandwich, Windsor and
Amherstburg Railway :

Debitures issued to cover purchase price of Capital Stock and Plant Assets.....	\$2,039,000.00
Interest accrued thereon.....	7,646.25
Debitures issued for the purpose of making extensions and better- ments.....	\$900,000.00

Hypothecated to Bank

of Montreal...	440,000.00
Unsold and on hand	460,000.00

600,000.00

Bank of Montreal—Advances.....
(Secured by hypothecation of
\$501,000.00 Hydro Radial Deben-
tures issued by Commission and
\$190,000.00 Debitures of City
of Windsor)

2,646,646.25

In respect of the Guelph Radial Railway :

City of Guelph—Purchase price of Railway payable thereto in half- yearly installments according to terms of purchase agreement....	\$150,000.00
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Debitures issued by the Commission
for the purpose of making exten-
sions and betterments (author-
ized issue \$150,000).....

116,000.00

266,000.00

\$111,590,775.98

NIAGARA SYSTEM OPERATING ACCOUNT

FOR YEAR ENDING 31st OCTOBER, 1921.

COSTS OF OPERATION AS PROVIDED FOR UNDER SECTIONS 36 AND 23 OF THE ACT.

Power Purchased.....	\$2,411,965.30
Cost of operating and maintaining Transmission Lines, Stations, etc., including the proportion of Adminis- trative Expenses chargeable to the operation of this System.....	656,078.61
Interest on Capital Investment.....	668,319.17
Provision for Renewal of Lines, Stations, etc.....	322,462.26
Provision for Contingencies:	
By charges against Municipalities..... \$ 30,337.08	
By charges against contracts with Private Companies which purchase power.....	7,162.92
Provision for Sinking Fund:	
By certain Municipalities which were charged therewith upon the expiry of their five year exemption period.....	\$168,957.93
By charges against contracts with Private Companies which purchased power.....	43,279.90
	212,237.83
	<u>\$4,308,563.17</u>

REVENUE FOR PERIOD.

Collected from Municipalities.....	\$3,465,999.68
Power sold to Private Companies.....	750,465.74
	<u>4,216,465.42</u>
Add amounts due by certain Municipalities, being the difference between sums paid and the cost of power supplied to them in the year.....	\$185,910.45
Deduct amounts collected from certain Municipalities in excess of the sums required to be paid by them for power supplied in the year.....	109,881.52
	<u>76,028.93</u>
REVENUE.....	\$4,292,494.35
Loss on Sale of Power supplied to Private Companies (written off against Contingency Reserve).....	16,008.82

\$4,308,563.17

NIAGARA

Statement Showing the Amount to be Paid by Each Municipality as the Cost—Under Received by the Commission from Each Municipality on Account of Such Cost, upon ascertainment (by Annual Adjustment) of the Actual Cost

Municipality	Interim Rates per Horse Power collected by Commission during Year		Share of Capital Cost of System on which Interest and Fixed Charges are Payable	Average Horse Power Supplied in Year after Correction for Power Factor	Cost of Power to Commission	Share of Operating Maintenance and Administrative Expenses
	To Dec. 31, 1920	To Oct. 31, 1921				
Acton.....	\$32.00	\$32.00	\$29,761.80	203.7	\$2,485.09	\$2,096.04
Ailsa Craig.....	49.00	49.00	37,956.45	127.9	1,680.35	1,189.52
Aylmer.....	38.00	45.00	53,183.67	180.1	2,197.18	2,116.50
Ayr.....	50.00	50.00	16,175.22	75.3	998.64	883.88
Baden.....	32.00	32.00	25,329.18	187.4	2,286.24	1,476.63
Beachville.....	27.00	30.00	30,910.86	261.9	3,195.12	2,671.93
Blenheim.....	50.00	53.00	38,188.63	145.8	1,778.72	2,024.87
Bolton.....	60.00	60.00	41,721.41	121.0	1,476.17	931.55
Bothwell.....	60.00	60.00	36,807.55	141.2	1,722.61	2,121.44
Brampton.....	20.00	20.00	78,549.06	908.3	11,181.06	3,690.28
Brantford.....	18.00	20.00	266,346.22	4,330.0	52,975.06	15,366.88
Brigden.....	57.50	60.00	30,864.00	78.5	957.69	1,772.53
Burford.....	70.00	70.00	16,031.05	43.1	525.81	1,365.99
Burgessville.....	48.00	48.00	7,018.77	26.7	325.74	436.85
Caledonia.....	24.00	24.00	7,397.44	86.7	1,057.72	427.37
Chatham.....	29.00	28.00	248,226.25	2,220.0	27,283.52	10,906.51
Chippawa Village.....	35.00	32.00	975.38	67.7	825.92	509.24
Clinton.....	43.00	46.00	41,868.33	167.0	2,037.37	1,574.21
Comber.....	60.00	60.00	31,247.36	107.6	1,312.70	1,558.13
Dashwood.....	56.00	56.00	20,654.62	48.5	591.69	1,081.44
Delaware.....	85.00	85.00	4,522.60	12.4	151.28	309.28
Dereham Township.....	37.00	37.00	12,592.64	81.9	999.16	1,214.21
Dorchester.....	50.00	50.00	5,338.81	26.9	328.17	482.79
Drayton.....	65.00	70.00	26,560.56	51.1	623.41	914.80
Dresden.....	38.00	38.00	30,002.12	192.2	2,344.79	1,652.27
Drumbo.....	60.00	55.00	5,173.14	23.6	287.92	324.12
Dublin.....	60.00	60.00	10,180.62	27.8	339.15	1,136.49
Dundas.....	14.00	17.00	44,978.04	1,172.0	14,298.14	2,473.59
Dunnville.....	35.00	40.00	88,527.80	251.1	3,063.36	997.83
Dutton.....	40.00	40.00	18,593.14	107.2	1,307.81	1,366.57
Elmira.....	38.00	38.00	46,273.65	296.7	3,819.67	2,142.73
Elora.....	40.00	40.00	36,893.92	197.5	2,409.45	2,172.14
Embro.....	75.00	75.00	18,452.71	46.7	569.73	1,078.63
Etobicoke Twp.....	27.00	27.00	29,357.37	352.3	4,297.99	1,737.19
Exeter.....	41.00	41.00	46,554.09	178.4	2,176.44	2,988.19
Galt.....	20.00	21.00	206,035.52	2,673.7	32,918.55	11,608.52
Fergus.....	40.00	44.00	35,549.27	185.1	2,258.18	2,127.80
Forest.....	63.00	60.00	46,273.91	119.6	1,459.09	2,111.07
Glencoe.....	78.35	78.35	39,280.26	70.9	864.96	1,451.68
Goderich.....	43.00	50.00	145,206.51	450.2	5,592.34	4,525.98
Granton.....	55.00	55.00	13,571.10	46.0	561.19	716.91
Georgetown.....	35.00	35.00	98,211.12	539.2	6,778.12	6,237.40
Guelph.....	19.00	20.00	205,194.83	3,860.9	47,802.17	15,245.82
Hagersville.....	36.00	36.00	53,498.11	349.5	4,263.82	2,773.90
Hamilton.....	14.00	16.00	641,655.64	16,995.7	209,843.93	29,949.72

SYSTEM

Section 23 of the Act—of Power Supplied to it by the Commission—The Amount and the Amount Remaining to be Credited or Charged to Each Municipality of Power Supplied to it in the Year Ending 31st October, 1921

Operating Costs and Fixed Charges.				Total Cost of Power for Year as provided to be Paid under Section 23 of Act	Amounts Paid to the Commission by Each Municipality	Amounts remaining to be credited or charged to each Municipality upon ascertainment of the actual Cost of Power by Annual Adjustment		Sinking Fund for the years mentioned hereunder charged as part of the Cost of Power in the Year 1920-21
Interest	Renewals	Contingencies	Sinking Fund			Credited	Charged	
\$1,352.06	\$716.63	\$39.15	\$413.75	\$7,102.72	\$6,516.82	..\$	\$585.90	1919-20
1,724.56	927.14	24.58	322.53	5,868.68	6,485.23	616.55		1916-17
2,398.31	1,283.84	34.61	.....	8,030.44	7,893.72	.....	136.72	.....
735.18	395.26	14.47	247.83	3,275.26	3,637.47	362.21		1917-18
1,117.20	583.37	36.01	428.71	5,920.16	5,995.89	67.73		1919-20
1,403.72	735.26	50.33	544.95	8,601.31	7,713.91	.....	887.40	1919-20
1,735.17	899.38	28.02	677.84	7,144.00	7,657.20	513.20		1916-17
1,899.65	1,010.15	23.25	711.46	6,052.23	7,258.25	1,206.02		1916-17
1,672.42	866.59	27.14	628.86	7,039.06	8,472.45	1,433.39		1916-17
3,583.98	1,716.97	174.56	1,304.21	21,651.06	19,896.25	.....	1,754.81	1920-21
12,073.63	6,134.09	832.13	2,781.42	90,163.21	85,358.87	.....	4,804.34	1917-18
1,403.01	741.80	15.09	.....	4,890.12	4,678.12	.....	212.00	.....
728.95	395.55	8.28	283.82	3,308.40	3,016.39	.....	292.01	1916-17
319.08	171.65	5.13	.....	1,258.45	1,281.43	22.98 . . . . .		.....
334.61	178.48	16.66	117.35	2,132.19	2,081.00	.....	51.19	1919-20
11,257.71	5,363.10	426.64	3,022.16	58,259.64	63,065.51	4,805.87		1916-17
44.38	24.38	.....	.....	1,403.92	2,199.13	795.21 . . . . .		.....
1,900.28	1,004.06	32.09	581.97	7,129.98	7,361.18	231.20		1917-18
1,415.55	737.91	20.68	368.01	5,412.98	6,453.15	1,040.17		1916-17
939.20	508.30	9.32	.....	3,129.95	2,578.29	.....	551.66	.....
205.63	111.00	2.38	73.12	852.69	1,051.13	198.44		1916-17
572.10	303.08	15.74	.....	3,104.29	2,020.47	.....	1,083.82	.....
242.56	128.99	5.17	81.22	1,268.90	1,342.90	74.00		1917-18
1,205.39	650.05	9.82	.....	403.47	3,525.49	122.02 . . . . .		.....
1,361.93	677.10	36.94	366.75	6,439.78	7,301.94	862.16		1916-17
235.14	126.47	4.54	109.99	1,088.18	1,323.28	235.10		1917-18
462.43	247.42	5.34	.....	2,190.83	1,670.80	.....	520.03	.....
2,019.59	1,037.03	225.23	798.96	20,852.54	19,354.76	.....	1,497.78	1920-21
4,026.19	2,212.19	48.26	.....	10,347.83	9,821.48	.....	526.35	.....
842.34	442.64	20.60	287.89	4,267.85	4,287.99	20.14		1916-17
2,049.57	1,077.89	57.02	624.71	9,771.59	11,476.11	1,704.52		1918-19
1,676.63	895.76	37.96	708.90	7,900.84	7,898.50	.....	2.34	1917-18
839.13	454.64	8.97	299.38	3,250.48	3,505.60	255.12		1917-18
1,341.61	618.38	67.70	.....	8,062.87	9,513.15	1,450.28 . . . . .		.....
2,116.02	1,134.17	34.28	.....	8,449.10	7,312.85	.....	1,136.25	.....
9,347.81	4,746.54	513.83	3,698.04	62,833.29	61,168.36	.....	1,664.93	1920-21
1,615.61	863.84	35.57	511.12	7,412.12	8,003.87	591.75		1917-18
2,103.49	1,111.45	22.98	.....	6,808.08	7,234.25	426.17 . . . . .		.....
1,786.06	955.09	13.63	.....	5,071.42	5,556.93	485.51 . . . . .		.....
6,594.12	3,515.19	86.52	2,138.57	22,452.72	21,392.28	.....	1,060.44	1917-18
616.93	331.63	8.84	.....	2,235.50	2,527.42	291.92 . . . . .		.....
4,462.94	2,382.71	103.62	1,418.38	21,383.17	19,071.17	.....	2,312.00	1918-19
9,296.53	4,610.32	741.98	3,677.75	81,374.57	77,280.66	.....	4,093.91	1920-21
2,225.59	1,201.19	67.17	642.29	11,173.96	12,582.69	1,408.73		1918-19
28,618.89	14,671.28	3,266.20	11,321.76	297,671.78	273,221.84	.....	24,449.94	1920-21

NIAGARA

Statement Showing the Amount to be Paid by Each Municipality as the Cost—Under Received by the Commission from Each Municipality on Account of Such Cost, upon ascertainment (by Annual Adjustment) of the Actual Cost

Municipality	Interim Rates per Horse Power collected by Commission during Year		Share of Capital Cost of System on which Interest and Fixed Charges are Payable	Average Horse Power Supplied in Year after Correction for Power Factor	Cost of Power to Commission	Share of Operating Maintenance and Administrative Expenses
	To Dec. 31, 1920	To Oct. 31, 1921				
Harriston.....	\$52.00	\$55.00	\$55,592.60	212.4	\$2,591.23	\$2,064.65
Hensall.....	55.00	57.00	23,803.85	54.1	660.00	1,025.79
Hespeler.....	21.00	23.00	31,721.22	368.5	4,495.61	2,355.78
Highgate.....	51.00	55.00	15,189.43	45.5	555.08	617.92
Ingersoll.....	21.00	23.00	84,940.48	981.9	11,978.96	5,665.73
Kitchener.....	19.00	20.00	422,850.41	6,291.6	78,756.15	21,284.39
Lambeth.....	85.00	75.00	10,102.91	27.7	337.94	652.77
Listowel.....	37.00	37.00	82,961.31	476.4	6,011.97	3,688.98
London.....	19.00	20.00	785,213.83	12,365.2	152,152.74	38,229.50
London Railway Com.	15.00 + 1c k.w.h*	15.00 + 1c k.w.h.	147,802.40	1,153.5	14,072.44	18,267.48
Lucan.....	40.00	35.00	31,217.29	194.3	2,370.42	1,543.99
Lynden.....	50.00	50.00	24,271.80	100.8	1,229.73	989.15
Markham.....	77.74	77.74	19,675.19	53.2	1,484.76	8.06
Milton.....	28.00	28.00	80,676.47	658.2	8,189.89	3,411.39
Milverton.....	35.00	35.00	42,815.38	277.0	3,479.34	2,172.59
Mimico.....	21.00	21.00	33,163.06	400.0	4,879.91	1,787.68
Mitchell.....	36.00	36.00	28,939.70	187.6	2,288.68	1,335.45
Moorefield.....	70.00	70.00	13,171.25	27.9	340.37	587.95
Mount Brydges.....	70.00	70.00	9,847.63	27.0	329.40	641.26
Newbury.....		67.10	5,085.09	11.2	136.63	261.06
New Hamburg.....	32.00	32.00	32,662.87	226.2	2,759.59	2,044.58
New Toronto.....	20.00	22.00	289,788.79	2,924.3	35,925.82	13,264.20
Niagara Falls.....	11.50	12.50	33,339.50	3,457.5	42,240.75	3,758.86
Niagara-on-Lake.....	28.00	28.00	7,314.53	182.2	2,222.80	632.39
Norwich.....	35.00	35.00	36,645.88	253.9	3,097.52	2,557.47
Oil Springs.....	43.00	43.00	28,790.63	119.3	1,455.43	1,423.50
Otterville.....	50.00	50.00	9,318.33	37.0	451.39	500.67
Palmerston.....	50.00	45.00	39,203.75	190.2	2,320.39	1,884.76
Paris.....	19.00	21.00	47,795.82	671.7	8,194.59	2,595.12
Parkhill.....	75.23	75.00	31,885.01	54.2	661.23	735.29
Petrolia.....	36.00	36.00	90,475.09	589.2	7,288.11	4,588.45
Plattsville.....	65.00	65.00	9,219.29	28.1	342.81	946.32
Port Credit.....	23.00	23.00	11,786.29	114.7	1,399.31	843.64
Port Stanley.....	53.00	50.00	41,764.62	195.7	2,387.50	2,186.94
Preston.....	19.00	22.00	109,280.60	1,552.6	18,941.38	6,270.66
Princeton.....	85.00	90.00	8,977.65	16.1	196.41	523.25
Queenston.....		18.42	598.16	19.9	242.77	102.03
Ridgetown.....	47.00	45.00	40,945.53	191.9	2,341.14	1,957.96
Rockwood.....	55.00	55.00	15,044.25	55.2	673.43	987.94
Rodney.....	63.00	55.00	14,592.00	61.8	753.94	815.87
St. George.....	45.00	45.00	16,445.91	73.9	901.56	674.61
St. Jacobs.....	32.00	35.00	11,199.35	74.9	913.76	928.35
St. Mary's.....	28.00	32.00	107,309.33	910.4	11,106.68	7,189.62
St. Thomas.....	24.00	25.00	205,890.37	2,349.9	28,968.26	13,811.85
Sarnia.....	36.00	35.00	465,850.51	2,861.5	36,009.67	18,574.80

* Note:—Charged to Contingency Reserve.

SYSTEM—Continued

Section 23 of the Act—of Power Supplied to it by the Commission—The Amount and the Amount Remaining to be Credited or Charged to Each Municipality of Power Supplied to it in the Year Ending 31st October, 1921

Operating Costs and Fixed Charges				Total Cost of Power for Year as provided to be Paid under Section 23 of Act	Amounts Paid to the Commission by Each Municipality	Amounts remaining to be credited or charged to each Municipality upon ascertainment of the actual Cost of Power by Annual Adjustment		Sinking Fund for the years mentioned hereunder charged as part of the Cost of Power in the Year 1920-21
Interest	Renewals	Contingencies	Sinking Fund			Credited	Charged	
\$2,516.13	\$1,331.55	\$ 40.82	\$	\$ 8,544.38	\$ 11,558.58	\$ 3,014.20	\$ . . . . .	.....
1,082.38	586.08	10.40	.....	3,364.65	3,052.47	.....	312.18	.....
1,439.62	737.30	70.82	569.62	9,668.75	8,735.78	.....	932.97	1920-21
690.37	362.46	8.74	.....	2,234.57	2,467.99	233.42	.....	.....
3,854.57	1,982.87	188.70	1,524.88	25,195.71	23,387.15	.....	1,808.58	1920-21
18,055.41	8,897.28	1,209.11	7,142.80	135,345.14	128,596.65	.....	6,748.49	1920-21
459.35	247.97	5.32	155.50	1,858.85	2,345.69	486.84	.....	1916-17
3,761.26	1,952.38	91.55	.....	15,506.14	17,826.23	2,320.09	.....	.....
35,576.33	17,572.93	2,376.32	14,074.15	259,981.97	246,728.42	.....	13,253.55	1920-21
6,648.02	3,435.55	221.68	2,752.05	45,397.22	44,181.95	.....	1,215.27	1917-18
1,418.06	748.12	37.34	433.18	6,551.11	6,978.59	427.48	.....	1916-17
1,102.06	599.28	19.37	448.97	4,388.56	5,039.06	650.50	.....	1916-17
894.60	491.54	.....	.....	2,878.96	4,137.02	1,258.06	.....	.....
3,678.01	1,838.08	126.49	1,006.87	18,250.73	18,567.76	317.03	.....	1918-19
1,940.24	999.64	53.23	.....	8,645.04	9,795.09	1,150.05	.....	.....
1,506.07	692.66	76.87	386.35	9,329.54	8,399.63	.....	929.91	1919-20
1,311.43	675.58	36.05	518.81	6,166.00	6,753.21	587.21	.....	1920-21
597.61	321.66	5.36	.....	1,852.95	1,950.05	97.10	.....	.....
447.74	241.69	5.19	214.72	1,880.00	1,752.30	.....	127.70	1916-17
220.05	116.77	2.15	.....	736.66	749.83	13.17	.....	.....
1,452.68	761.38	45.47	574.68	7,636.38	7,239.71	.....	396.67	1920-21
12,772.57	6,032.06	561.99	3,935.44	72,492.08	63,471.04	.....	9,021.04	1917-18
1,489.07	818.17	664.46	263.23	49,234.54	42,657.95	.....	6,576.59	1916-17
331.35	182.06	35.01	.....	3,403.61	5,101.42	1,697.81	.....	.....
1,664.77	879.79	48.79	563.44	8,811.78	8,887.28	75.50	.....	1919-20
1,308.03	674.49	22.93	.....	4,884.38	4,842.85	.....	41.53	.....
423.60	227.66	7.11	.....	1,610.43	1,787.47	177.04	.....	.....
1,772.27	928.16	36.55	.....	6,942.13	8,725.74	1,783.61	.....	.....
2,167.70	1,113.52	129.09	596.71	14,796.73	13,889.27	.....	907.46	1917-18
1,450.11	788.09	10.42	.....	3,645.14	4,070.34	425.20	.....	.....
4,106.81	2,038.21	113.23	.....	18,134.81	21,312.61	3,177.80	.....	.....
419.17	227.07	5.40	497.60	2,438.37	1,828.10	.....	610.27	1917-18
537.55	263.50	22.04	138.02	3,204.06	3,038.85	.....	165.21	1919-20
1,842.70	975.62	37.61	677.74	8,108.11	9,837.41	1,729.30	.....	1919-20
4,956.71	2,497.21	298.38	1,960.89	34,925.23	33,554.12	.....	1,371.11	1920-21
408.34	222.50	3.09	177.71	1,531.30	1,437.58	.....	93.72	1917-18
19.11	10.50	3.82	.....	378.23	365.63	.....	12.60	.....
1,859.81	950.80	36.88	730.62	7,877.21	8,699.34	822.13	.....	1916-17
683.94	368.67	10.61	219.24	2,943.83	2,866.37	.....	77.46	1918-19
659.44	350.70	11.88	.....	2,591.83	3,482.09	890.26	.....	.....
747.52	402.19	14.20	215.34	2,955.42	2,956.11	.69	.....	1916-17
495.47	260.05	14.39	.....	2,612.02	2,501.78	.....	110.24	.....
4,856.14	2,358.34	174.96	1,921.11	27,606.85	28,555.43	948.58	.....	1920-21
9,288.18	4,660.91	451.60	3,674.44	60,855.24	59,016.11	.....	1,839.13	1920-21
21,149.05	10,560.24	549.92	.....	86,843.68	101,739.50	14,895.82	.....	.....

NIAGARA

Statement Showing the Amount to be Paid by Each Municipality as the Cost—Under Received by the Commission from Each Municipality on Account of Such Cost, upon ascertainment (by Annual Adjustment) of the Actual Cost

Municipality	Interim Rates per Horse Power collected by Commission during Year		Share of Capital Cost of System on which Interest and Fixed Charges are Payable	Average Horse Power Supplied in Year after Correction for Power Factor	Cost of Power to Commission	Share of
	To Dec. 31, 1920	To Oct. 31, 1921				Operating Maintenance and Administrative Expenses
Scarboro Twp.....	\$25.00	\$28.00	\$ 16,898.03	169.2	\$ 4,722.13	\$ 484.69
Seaforth.....	36.00	36.00	71,053.82	386.4	4,713.99	3,051.55
Simcoe.....	28.00	28.00	27,574.72	233.4	2,847.43	2,005.20
S. Dorchester Twp.....			2,678.77	8.4	102.47	154.17
Springfield.....	65.00	65.00	11,671.74	36.6	446.51	728.70
Stamford Twp.....	15.00	16.00	9,952.60	438.6	5,350.83	753.60
Stratford.....	25.00	27.00	216,903.82	2,216.1	27,355.93	12,459.34
Strathroy.....	40.00	37.00	75,984.12	394.7	4,815.25	2,561.45
Streetsville.....			34,236.33	194.2	2,383.80	1,673.65
Tavistock.....	35.00	35.00	47,244.61	270.3	3,337.60	2,276.32
Thamesford.....	55.00	50.00	21,701.94	93.3	1,138.24	1,608.22
Thamesville.....	60.00	55.00	17,014.81	74.4	907.66	1,185.32
Thorndale.....	60.00	60.00	16,213.57	51.3	625.85	1,720.05
Tilbury.....	50.00	50.00	28,958.98	148.0	1,805.56	1,616.32
Tillsonburg.....	30.00	30.00	60,171.31	410.5	5,008.01	3,995.58
Toronto.....	17.00	17.00	3,133,373.63	58,136.3	712,250.31	94,672.38
Toronto Twp.....	25.00	25.00	23,907.68	246.6	3,008.46	1,642.57
Walkerville.....	36.00	35.00	530,582.76	3,472.8	44,367.40	19,419.06
Wallaceburg.....	38.00	35.00	122,499.52	734.2	9,007.08	5,140.37
Wardsville.....		82.20	3,803.79	2.7	32.93	80.61
Waterdown.....	26.00	31.00	16,719.79	123.7	1,509.11	893.73
Waterford.....	33.00	33.00	16,897.88	123.5	1,506.68	1,283.93
Waterloo.....	20.00	21.00	91,405.67	1,296.0	15,810.91	4,679.31
Watford.....	85.00	85.00	39,341.00	71.1	867.41	1,912.09
Welland.....	14.00	16.00	77,925.30	1,736.0	21,178.82	2,647.11
Wellesley.....	39.00	39.00	28,210.30	119.4	1,456.66	1,246.32
Weston.....	23.00	23.00	86,364.31	907.0	11,065.20	4,097.89
West Lorne.....	55.00	50.00	27,258.83	152.4	1,859.24	1,687.19
Windsor.....	36.00	35.00	752,230.69	4,957.5	61,640.42	26,881.32
Woodbridge.....	31.00	31.00	26,536.95	168.1	2,050.78	1,250.17
Woodstock.....	20.00	21.00	107,885.17	1,713.1	21,199.44	8,391.03
Wyoming.....	60.00	60.00	13,266.58	42.2	514.83	670.17
Zurich.....	60.00	60.00	28,617.59	58.0	707.59	1,337.69
Totals—Municipalities.....			12,408,120.70	158,149.3	1,949,985.24	562,539.22
Totals—Companies.....			2,363,873.47	43,371.6	461,980.06	93,539.39
Non-Operating Capital.....			2,552,262.01			
Grand Totals.....			17,324,256.18	201,520.9	2,411,965.30	656,078.61

* Note :—Charged Contingency to Reserve.

SYSTEM—Continued

Section 23 of the Act—of Power Supplied to it by the Commission—The Amount and the Amount remaining to be Credited or Charged to Each Municipality of Power Supplied to it in the Year Ending 31st October, 1921

Operating Costs and Fixed Charges.				Total Cost of Power for Year as provided to be Paid under Section 23 of Act	Amounts Paid to the Commission by Each Municipality	Amounts remaining to be credited or charged to each Municipality upon ascertainment of the actual Cost of Power by Annual Adjustment		Sinking Fund for the years mentioned hereunder charged as part of the Cost of Power in the Year 1920-21
Interest	Renewals	Contingencies	Sinking Fund			Credited	Charged	
\$ 766.87	\$ 421.36	\$	\$	\$ 6,395.05	\$ 5,583.14	\$	\$ 811.91	.....
3,222.02	1,677.68	74.26	1,274.65	14,014.15	13,912.14	.....	102.01	1920-21
1,252.20	661.08	44.85	284.71	7,095.47	6,534.66	.....	560.81	1916-17
121.82	65.77	1.61	.....	445.84	445.84	.....	.....	.....
530.68	286.55	7.03	.....	1,999.47	1,583.83	.....	415.64	.....
374.67	205.86	84.29	.....	6,769.25	7,088.47	319.22	.....	1920-21
9,806.35	4,856.67	425.89	3,879.44	58,783.62	59,431.07	647.45	.....	1920-21
3,452.44	1,833.92	75.85	1,304.68	14,043.59	14,370.71	327.12	.....	1917-18
1,556.42	801.24	37.32	591.44	7,043.87	8,836.91	1,793.04	.....	1920-21
2,141.97	1,112.09	51.95	.....	8,919.93	9,501.12	581.19	.....	.....
986.29	527.03	17.93	345.09	4,622.80	4,641.86	19.06	.....	1917-18
772.91	397.13	14.30	369.27	3,646.59	3,976.89	330.30	.....	1916-17
757.09	396.80	9.86	505.53	3,995.18	3,076.85	.....	918.35	1917-18
1,309.10	664.46	28.44	513.89	5,937.77	7,343.48	1,405.71	.....	1916-17
2,733.55	1,445.48	78.89	1,081.40	14,342.91	12,314.46	.....	2,028.45	1920-21
143,531.68	59,113.79	11,172.52	47,506.68	1,068,247.36	991,317.46	.....	76,929.90	1920-21
1,090.54	530.70	47.39	292.87	6,612.53	6,163.74	.....	448.79	1918-19
24,053.92	11,095.02	667.40	10,665.07	110,267.87	124,370.45	14,102.58	.....	1917-18
5,561.63	2,783.83	141.10	1,727.78	24,361.79	26,264.57	1,902.78	.....	1916-17
90.54	48.74	.52	.....	253.34	218.51	.....	34.83	.....
757.91	408.77	23.77	299.83	3,893.12	3,737.35	.....	155.77	1920-21
767.57	407.49	23.73	260.46	4,249.86	4,074.06	.....	175.80	1916-17
3,888.35	1,925.68	249.06	1,538.25	28,091.56	27,320.89	.....	770.67	1920.21
1,788.84	956.54	13.66	.....	5,538.54	5,706.31	167.77	.....	.....
3,532.99	1,941.20	333.62	.....	29,633.74	27,102.90	.....	2,530.84	.....
12,61.08	673.48	22.95	.....	4,660.49	4,655.40	.....	5.09	.....
3,939.56	1,912.69	174.31	1,445.04	22,634.69	20,861.17	.....	1,773.52	1920-21
1,229.22	646.70	29.29	.....	5,451.64	7,635.94	2,184.30	.....	.....
34,101.45	15,708.69	952.73	8,225.68	147,510.29	176,793.20	29,282.91	.....	1917-18
1,209.29	617.76	32.51	343.49	5,503.80	5,210.01	.....	293.79	1917-18
4,890.93	2,451.76	329.22	1,934.87	39,197.25	36,001.23	.....	3,196.02	1920-21
602.93	315.65	8.11	.....	2,111.69	2,530.50	418.81	.....	.....
1,301.40	705.80	11.15	.....	4,063.63	3,480.87	.....	582.76	.....
561,328.49	268,880.65	30,337.08	168,957.93	3,542,028.61	3,465,999.68	109,881.52	185,910.45	.....
106,990.68	53,581.61	7,162.92	43,279.90	766,534.56	750,465.74	.....	16,068.82*	.....
668,319.17	322,462.26	37,500.00	212,237.83	4,308,563.17	4,216,465.42	.....	.....	.....

NIAGARA SYSTEM

Reserve for Contingencies Account, 31st October, 1921

Balance brought forward, 31st October, 1920.....		\$38,514.55
Added during the year ending 31st October, 1921 :		
Amounts charged to Municipalities as part of the Cost of Power delivered to them.....	\$30,337.08	
Provision against equipment employed in respect of contracts with Sundry Customers.....	7,162.92	
Interest at 4% per annum on monthly balances at the credit of the account.....	1,540.58	
		<u>39,040.58</u>
		\$77,555.13
Deduct :		
Expenditures to cover contingencies met with during the year ending 31st October, 1921.....	30,917.57	
Net loss for year on power sold to Sundry Power Customers	16,068.82	
Net loss from contracts with Sundry Power Customers to 31st October, 1920, not previously applied to Reserve for Contingencies	5,545.05	
		<u>52,531.44</u>
Balance carried forward, 31st October, 1921.....		<u><u>\$25,023.69</u></u>

NIAGARA SYSTEM

Reserve for Renewals Account, 31st October, 1921

Total provision for Renewals to 31st October, 1920.....	\$1,993,802.41
Deduct :	
Expenditures to 31st October, 1920.....	156,539.54
	<hr/>
Balance brought forward, 31st October, 1920.....	1,837,262.87
Added during the year ending 31st October, 1921:	
Amounts charged to Municipalities as part of the Cost of Power delivered to them.....	\$268,880.65
Provision against equipment employed in respect of contracts with Sundry Companies.....	53,581.61
Interest at 4% per annum on the monthly balances to the credit of the account.....	73,529.66
	<hr/>
	395,991.92
	<hr/>
Expenditures during the year ending 31st October, 1921.....	\$2,233,254.79
	10,888.89
	<hr/>
Balance carried forward, 31st October, 1921.....	<u>\$2,222,365.90</u>

NIAGARA

Statement Showing the Total Sinking Fund Requirements to be Met by Each Municipality under Section 23 of the Act.—Sinking Fund Payments made the Total of such Sinking Fund Payments, including

Municipality	Total Sinking Fund Requirements Chargeable to the Municipality under the Act		Sinking Fund Requirements the Payment of which has been deferred	
	(a) For Period of	(b) Amount	(a) For Period of	(b) Amount
Acton.....	5 yrs. ending 31 Oct. 1921	\$ 2,252.03	1 yr. ending 31 Oct. 1921	\$ 534.88
Ailsa Craig.....	5 " " " 1921	2,548.73	4 " " " 1921	2,226.20
Aylmer.....	4 " " " 1921	3,346.79	4 " " " 1921	3,346.79
Ayr.....	5 " " " 1921	1,214.56	3 " " " 1921	764.35
Baden.....	5 " " " 1921	2,427.23	1 " " " 1921	441.97
Beachville.....	5 " " " 1921	2,502.40	1 " " " 1921	555.32
Blenheim.....	5 " " " 1921	3,375.16	4 " " " 1921	2,697.32
Bolton.....	5 " " " 1921	3,491.66	4 " " " 1921	2,780.20
Bothwell.....	5 " " " 1921	3,509.12	4 " " " 1921	2,880.26
Brampton.....	5 " " " 1921	5,823.91		
Brantford.....	5 " " " 1921	17,841.46	3 yrs. ending 31 Oct. 1921	12,278.57
Brigden.....	4 " " " 1921	2,132.14	4 " " " 1921	2,132.14
Burford.....	5 " " " 1921	1,413.24	4 " " " 1921	1,129.42
Burgessville.....	5 " " " 1921	536.62	5 " " " 1921	536.62
Caledonia.....	5 " " " 1921	575.18	1 " " " 1921	132.37
Chatham.....	5 " " " 1921	18,851.78	4 " " " 1921	15,829.62
Chippawa.....	3 " " " 1921	38.04	3 " " " 1921	38.04
Clinton.....	5 " " " 1921	3,485.97	3 " " " 1921	2,296.52
Comber.....	5 " " " 1921	2,077.82	4 " " " 1921	1,709.81
Dashwood.....	5 " " " 1921	1,723.36	5 " " " 1921	1,723.36
Delaware.....	5 " " " 1921	377.23	4 " " " 1921	304.11
Dereham Twp.....	3 " " " 1921	395.40	3 " " " 1921	395.40
Dorchester.....	5 " " " 1921	410.96	3 " " " 1921	262.41
Drayton.....	4 " " " 1921	1,870.78	4 " " " 1921	1,870.78
Dresden.....	5 " " " 1921	2,489.64	4 " " " 1921	2,122.89
Drumbo.....	5 " " " 1921	467.43	3 " " " 1921	234.88
Dublin.....	5 " " " 1921	671.50	5 " " " 1921	671.50
Dundas.....	5 " " " 1921	4,608.92		
Dunnville.....	4 " " " 1921	5,113.48	4 yrs. ending 31 Oct. 1921	5,113.48
Dutton.....	5 " " " 1921	1,679.16	4 " " " 1921	1,391.27
Elmira.....	5 " " " 1921	3,275.87	2 " " " 1921	1,467.78
Elora.....	5 " " " 1921	3,422.25	3 " " " 1921	2,112.83
Embro.....	5 " " " 1921	1,624.86	3 " " " 1921	976.44
Etobicoke Twp.....	5 " " " 1921	1,390.18	5 " " " 1921	1,390.18
Exeter.....	5 " " " 1921	5,688.37	5 " " " 1921	5,688.37
Fergus.....	5 " " " 1921	2,816.68	3 " " " 1921	1,765.44
Forest.....	5 " " " 1921	4,085.35	5 " " " 1921	4,085.35
Galt.....	5 " " " 1921	17,794.65		
Georgetown.....	5 " " " 1921	7,266.94	2 yrs. ending 31 Oct. 1921	3,256.69
Glencoe.....	2 " " " 1921	803.61	2 " " " 1921	803.61
Goderich.....	5 " " " 1921	11,833.95	3 " " " 1921	7,800.43
Granton.....	5 " " " 1921	1,145.49	5 " " " 1921	1,145.49
Guelph.....	5 " " " 1921	16,436.62		
Hagersville.....	5 " " " 1921	3,232.89	2 yrs. ending 31 Oct. 1921	1,559.70
Hamilton.....	5 " " " 1921	47,858.70		
Harriston.....	5 " " " 1921	4,316.87	5 yrs. ending 31 Oct. 1921	4,316.87
Hensall.....	5 " " " 1921	2,713.65	5 " " " 1921	2,713.65
Hespeler.....	5 " " " 1921	2,817.84		
Highgate.....	5 " " " 1921	1,580.09	5 yrs. ending 31 Oct. 1921	1,580.09
Ingersoll.....	5 " " " 1921	7,382.60		

SYSTEM

cipality, Sinking Fund Requirements, the Payment of which has been Deferred by by Certain Municipalities which have been Operating more than Five Years, and Interest allowed thereon, to 31st October, 1921

Sinking Fund Requirements Paid (or Charged) as part of the Cost of Power		Interest at 4% per Annum allowed on Sinking Fund Requirements which have been paid	Total Sinking Fund Payments and Accumulated Interest to the credit of the Municipality on 31st October, 1921
(a) For Period of	(b) Amount		
4 years ending 31 Oct., 1920.....	\$ 1,717.15	\$104.89	\$1,822.04
1 year ending 31 Oct., 1917.....	322.53		322.53
2 " " " 1918.....	450.21	8.09	458.30
4 " " " 1920.....	1,985.26	163.12	2,148.38
4 " " " 1920.....	1,947.08	110.21	2,057.29
1 " " " 1917.....	677.84		677.84
1 " " " 1917.....	711.46		711.46
1 " " " 1917.....	628.86		628.86
5 " " " 1921.....	5,823.91	464.87	6,288.78
2 " " " 1918.....	5,562.89	111.26	5,674.15
1 " " " 1917.....	283.82		283.82
4 years ending 31 Oct., 1920.....	442.81	26.86	469.67
1 " " " 1917.....	3,022.16		3,022.16
2 years ending 31 Oct., 1918.....	1,189.45	24.30	1,213.75
1 " " " 1917.....	368.01		368.01
1 year ending 31 Oct., 1917.....	73.12		73.12
2 years ending 31 Oct., 1918.....	148.55	2.69	151.24
1 year ending 31 Oct., 1917.....	366.75		366.75
2 years ending 31 Oct., 1918.....	232.55	4.90	237.45
5 years ending 31 Oct., 1921.....	4,608.92	403.11	5,012.03
1 year ending 31 Oct., 1917.....	287.89		287.89
3 " " " 1919.....	1,808.09	72.60	1,880.69
2 " " " 1918.....	1,309.42	24.02	1,333.44
2 " " " 1918.....	648.42	13.96	662.38
2 years ending 31 Oct., 1918.....	1,051.24	21.61	1,072.85
5 years ending 31 Oct., 1921.....	17,794.65	1,422.67	19,217.32
3 " " " 1919.....	4,010.25	157.55	4,167.80
2 years ending 31 Oct., 1918.....	4,033.52	75.80	4,109.32
5 years ending 31 Oct., 1921.....	16,436.62	1,295.00	17,731.62
3 " " " 1919.....	1,673.19	61.98	1,735.17
5 " " " 1921.....	47,858.70	3,422.22	51,280.92
5 years ending 31 Oct., 1921.....	2,817.84	227.49	3,045.33
5 " " " 1921.....	7,382.60	596.23	7,978.83

NIAGARA

Statement Showing the Total Sinking Fund Requirements to be Met by Each Municipality the Commission under Section 23 of the Act.—Sinking Fund Payments made the Total of such Sinking Fund Payments, including

Municipality	Total Sinking Fund Requirements Chargeable to the Municipality under the Act		Sinking Fund Requirements the Payment of which has been deferred	
	(a) For Period of	(b) Amount	(a) For Period of	(b) Amount
Kitchener.....	5 yrs. ending 31 Oct. 1921	\$31,112.49	4 yrs. ending 31 Oct. 1921	\$.....
Lambeth.....	5 " " " 1921	781.81	4 yrs. ending 31 Oct. 1921	626.31
Listowel.....	5 " " " 1921	5,934.69	5 " " " 1921	5,934.69
London.....	5 " " " 1921	62,845.21		
London Ry. Com.	5 " " " 1921	12,998.63	3 yrs. ending 31 Oct. 1921	7,699.68
Lucan.....	5 " " " 1921	2390.89	4 " " " 1921	1957.71
Lynden.....	5 " " " 1921	2,226.16	4 " " " 1921	1,777.19
Markham.....	2 " " " 1921	559.51	2 " " " 1921	559.51
Milton.....	5 " " " 1921	5,620.76	2 " " " 1921	2,756.02
Milverton.....	5 " " " 1921	3,722.89	5 " " " 1921	3,722.89
Mimico.....	5 " " " 1921	1,781.56	1 " " " 1921	531.99
Mitchell.....	5 " " " 1921	2,609.66		
Moorefield.....	4 " " " 1921	932.17	4 yrs. ending 31 Oct. 1921	932.17
Mount Brydges.	5 " " " 1921	1,034.72	4 " " " 1921	820.00
New Hamburg..	5 " " " 1921	2,780.13		
Newbury.....	1 yr. ending 31 Oct. 1921	87.05	1 yr. ending 31 Oct. 1921	87.05
New Toronto...	5 " " " 1921	19,693.11	3 " " " 1921	14,579.92
Niagara Falls...	5 " " " 1921	2,191.36	4 " " " 1921	1,928.13
Niagara-on-Lake	3 " " " 1921	337.43	3 " " " 1921	337.43
Norwich.....	5 " " " 1921	2,809.78	1 " " " 1921	658.59
Oil Springs....	4 " " " 1921	1,810.31	4 " " " 1921	1,810.31
Otterville.....	5 " " " 1921	640.44	5 " " " 1921	640.44
Palmerston....	5 " " " 1921	2,878.52	5 " " " 1921	2,878.52
Paris.....	5 " " " 1921	3,483.14	3 " " " 1921	2,462.29
Parkhill.....	2 " " " 1921	851.85	2 " " " 1921	851.85
Petrolia.....	5 " " " 1921	7,657.20	5 " " " 1921	7,657.20
Plattsville....	5 " " " 1921	2,000.82	3 " " " 1921	1,041.37
Port Credit....	5 " " " 1921	630.18	1 " " " 1921	198.31
Port Stanley...	5 " " " 1921	3,291.90	1 " " " 1921	728.98
Preston.....	5 " " " 1921	8,141.51		
Princeton.....	5 " " " 1921	812.41	3 yrs. ending 31 Oct. 1921	447.74
Queenston.....	1 " " " 1921	7.56	1 " " " 1921	7.56
Ridgetown....	5 " " " 1921	3,551.47	4 " " " 1921	2,820.85
Rockwood.....	5 " " " 1921	1,100.06	2 " " " 1921	495.22
Rodney.....	5 " " " 1921	1,367.86	5 " " " 1921	1,367.86
St. George.....	5 " " " 1921	1,329.24	4 " " " 1921	1,113.90
St. Jacobs.....	5 " " " 1921	879.77	5 " " " 1921	879.77
St. Mary's.....	5 " " " 1921	6,962.84		
St. Thomas....	5 " " " 1921	18,689.43		
Sarnia.....	5 " " " 1921	36,237.65	5 " " " 1921	36,237.65
Scarboro Twp..	2 " " " 1921	481.66	2 yrs. ending 31 Oct. 1921	481.66
Seaforth.....	5 " " " 1921	7,303.22		
Simcoe.....	5 " " " 1921	1,830.74	4 yrs. ending 31 Oct. 1921	1,546.03
S. Dorchester Tp.	1 " " " 1921	48.19	1 " " " 1921	48.19
Springfield....	5 " " " 1921	841.37	5 " " " 1921	841.37

SYSTEM—Continued

cipality, Sinking Fund Requirements, the Payment of which has been Deferred by
by Certain Municipalities which have been Operating more than Five Years, and
Interest allowed thereon, to 31st October, 1921

Sinking Fund Requirements Paid (or Charged) as part of the Cost of Power		Interest at 4% per Annum allowed on Sinking Fund Requirements which have been paid	Total Sinking Fund Payments and Accumulated Interest to the credit of the Municipality on 31st October, 1921
(a) For Period of	(b) Amount		
5 years ending 31 Oct. 1921	\$31,112.49	\$2,347.59	\$33,460.08
1 " " " 1917	155.50		155.50
5 years ending 31 Oct., 1921	62,845.21	4,929.12	67,774.33
2 " " " 1918	5,298.95	101.88	5,400.83
1 " " " 1917	433.18		433.18
1 " " " 1917	448.97		448.97
3 years ending 31 Oct., 1919	2,864.74	113.58	2,978.32
4 years ending 31 Oct., 1920	1,249.57	70.54	1,320.11
5 " " " 1921	2,609.66	215.80	2,825.46
1 yr. ending 31 Oct., 1917	214.72		214.72
5 " " " 1921	2,780.13	224.29	3,004.42
2 years ending 31 Oct., 1918	5,113.19	47.11	5,160.30
1 " " " 1917	263.23		263.23
4 years ending 31 Oct., 1920	2,151.19	135.00	2,286.19
2 years ending 31 Oct., 1918	1,020.85	16.97	1,037.82
2 years ending 31 Oct., 1918	959.45	18.47	977.92
4 " " " 1920	431.87	24.04	455.91
4 " " " 1920	2,562.92	155.64	2,718.56
5 " " " 1921	8,141.51	594.38	8,735.89
2 years ending 31 Oct., 1918	364.67	7.48	372.15
1 year ending 31 Oct., 1917	730.62		730.62
3 " " " 1919	604.84	22.43	627.27
1 year ending 31 Oct., 1917	215.34		215.34
5 years ending 31 Oct., 1921	6,962.84	495.76	7,458.60
5 " " " 1921	18,689.43	1,541.81	20,231.24
5 years ending 31 Oct., 1921	7,303.22	667.94	7,971.16
1 " " " 1917	284.71		284.71

NIAGARA

Statement Showing the Total Sinking Fund Requirements to be Met by Each Municipality under Section 23 of the Act.—Sinking Fund Payments made the Total of such Sinking Fund Payments, including

Municipality	Total Sinking Fund Requirements Chargeable to the Municipality under the Act		Sinking Fund Requirements the Payment of which has been deferred	
	(a) For Period of	(b) Amount	(a) For Period of	(b) Amount
Stamford Twp...	5 " " " 1921	\$626.22	5 yrs. ending 31 Oct. 1921	\$626.22
Stratford.....	5 " " " 1921	16,607.15		
Strathroy.....	5 " " " 1921	6,440.60	3 yrs. ending 31 Oct. 1921	3,946.32
Streetsville....	2 " " " 1921	1,179.49		
Tavistock.....	5 " " " 1921	3,844.15	5 yrs ending 31 Oct. 1921	3,844.15
Thamesford.....	5 " " " 1921	1,753.67	3 " " " 1921	1,142.24
Thamesville....	5 " " " 1921	1,539.59	4 " " " 1921	1,170.32
Thorndale.....	5 " " " 1921	1,990.39	3 " " " 1921	960.55
Tilbury.....	5 " " " 1921	2,421.86	4 " " " 1921	1,907.97
Tillsonburg....	5 " " " 1921	6,650.50		
Toronto.....	5 " " " 1921	225,570.18		
Toronto Twp....	5 " " " 1921	1,363.53	2 yrs. ending 31 Oct. 1921	688.88
Walkerville....	5 " " " 1921	52,881.51	3 " " " 1921	28,429.25
Wallaceburg....	5 " " " 1921	10,877.31	4 " " " 1921	9,149.53
Wardsville.....	1 " " " 1921	35.82	1 " " " 1921	35.82
Waterdown.....	5 " " " 1921	1,305.45		
Waterford.....	5 " " " 1921	1,616.65	4 yrs. ending 31 Oct. 1921	1,356.19
Waterloo.....	5 " " " 1921	6,734.98		
Watford.....	5 " " " 1921	3,050.04	5 yrs ending 31 Oct. 1921	3,050.04
Welland.....	5 " " " 1921	9,539.48	5 " " " 1921	9,539.48
Wellesley.....	5 " " " 1921	2,460.38	5 " " " 1921	2,460.38
Weston.....	5 " " " 1921	6,375.54		
West Lorne.....	5 " " " 1921	1,319.63	5 years ending 31 Oct. 1921	1,319.63
Windsor.....	5 " " " 1921	50,810.64	3 " " " 1921	32,099.82
Woodbridge....	5 " " " 1921	1,932.30	3 " " " 1921	1,286.49
Woodstock.....	5 " " " 1921	8,166.29		
Wyoming.....	5 " " " 1921	1,258.29	5 " " " 1921	1,258.29
Zurich.....	5 " " " 1921	2,300.99	5 yrs. ending 31 Oct. 1921	2,300.99
Totals—Municipalities.....		\$950,671.14		\$323,102.31
Totals—Companies (from commencement of operations,)		254.380.91		
GRAND TOTALS.....		\$1,205,052.05		\$323,102.31

SYSTEM—Continued

cipality, Sinking Fund Requirements, the Payment of which has been Deferred by by Certain Municipalities which have been Operating more than Five Years, and Interest allowed thereon, to 31st October, 1921

Sinking Fund Requirements Paid (or Charged) as part of the Cost of Power		Interest at 4% per Annum allowed on Sinking Fund Requirements which have been paid	Total Sinking Fund Payments and Accumulated Interest to the credit of the Municipality on 31st October, 1921
(a) For Period of	(b) Amount		
5 years ending 31 Oct., 1921.....	\$ 16,607.15	\$ 1,315.97	\$ 17,923.12
2 " " " 1918.....	2,494.28	47.58	2,541.86
2 " " " 1921.....	1,179.49	23.52	1,203.01
2 years ending 31 Oct., 1918.....	611.43	10.65	622.08
1 " " " 1917.....	369.27		369.27
2 " " " 1918.....	1,029.84	20.97	1,050.81
1 " " " 1917.....	513.89		513.89
5 " " " 1921.....	6,650.50	543.19	7,193.69
5 " " " 1921.....	225,570.18	17,709.77	243,279.95
3 " " " 1919.....	674.65	22.04	696.69
2 " " " 1918.....	24,452.26	551.49	25,003.75
1 " " " 1917.....	1,727.78		1,727.78
5 years ending 31 Oct., 1921.....	1,305.45	100.68	1,406.13
1 " " " 1917.....	260.46		260.46
5 " " " 1921.....	6,734.98	521.13	7,256.11
5 years ending 31 Oct., 1921.....	6,375.54	482.79	6,858.33
2 years ending 31 Oct., 1918.....	18,710.82	419.41	19,130.23
2 " " " 1918.....	645.81	12.09	657.90
5 years ending 31 Oct., 1921.....	8,166.29	630.19	8,796.48
	\$627,568.83	\$42,956.73	\$670,525.56
(from commencement of operations.)	254,380.91	32,811.42	287,192.33
	\$881,949.74	\$75,768.15	\$957,717.89

NIAGARA

Statement Showing the Net Credit or Charge to each Municipality in respect of thereon, Adjustments Made and Interest added during the Year ; also the Net in the Year Ending 31st October, 1921, and the Accumulated Amount

Municipality	Date Commenced Operating	Net Credit or Charge at 31st October, 1920	
		Credit	Charge
Acton.....	Jan., 1913	\$3,109.14	\$.....
Ailsa Craig.....	Jan., 1916	2,532.87	.....
Aylmer.....	Mar., 1918	.....	1,017.18
Ayr.....	Jan., 1915	.....	1,132.89
Baden.....	May, 1912	2,645.26	.....
Beachville.....	Aug., 1912	4,523.02	.....
Blenheim.....	Nov., 1915	.....	1,984.30
Bolton.....	Feb., 1915	.....	3,670.83
Bothwell.....	Sept., 1915	.....	1,492.87
Brampton.....	Nov., 1911	17,670.17	.....
Brantford.....	Feb., 1914	4,311.51	.....
Brigden.....	Jan., 1918	.....	1,005.43
Burford.....	June, 1915	.....	3,188.42
Burgessville.....	Nov., 1916	733.67	.....
Caledonia.....	Oct., 1912	411.99	.....
Chatham.....	Feb., 1915	10,710.78	.....
Chippawa.....	Sept., 1919	690.76	.....
Clinton.....	Mar., 1914	.....	376.92
Comber.....	May, 1915	.....	3,937.68
Dashwood.....	Sept., 1917	418.34	.....
Delaware.....	Mar., 1915	.....	260.83
Dereham Township.....	Sept., 1919	.....	315.61
Dorchester.....	Dec., 1914	865.20	.....
Drayton.....	Mar., 1918	.....	129.89
Dresden.....	April, 1915	732.50	.....
Drumbo.....	Dec., 1914	.....	659.12
Dublin.....	Oct., 1917	.....	443.05
Dundas.....	Jan., 1911	.....	3,691.73
Dunnville.....	June, 1918	.....	6,932.61
Dutton.....	Sept., 1915	477.82	.....
Elmira.....	Nov., 1913	1,301.24	.....
Elora.....	Nov., 1914	972.71	.....
Embro.....	Jan., 1915	.....	3,205.34
Etobicoke Township.....	Aug., 1917	3,884.53	.....
Exeter.....	June, 1916	382.42	.....
Fergus.....	Nov., 1914	.....	1,655.10
Forest.....	Mar., 1917	625.23	.....
Galt.....	May, 1911	27,552.72	.....
Georgetown.....	Sept., 1913	3,531.99	.....
Glencoe.....	Aug., 1920	200.32	.....
Goderich.....	Feb., 1914	.....	8,467.28
Granton.....	July, 1916	.....	139.23
Guelph.....	Dec., 1910	24,434.33	.....
Hagersville.....	Sept., 1913	517.51	.....
Hamilton.....	Feb., 1911	.....	24,412.85

SYSTEM

Power Supplied to it to 31st October, 1920, the Cash Receipts and Payments
Amount Credited or Charged to Each Municipality in respect of Power Supplied
Standing as a Credit or Charge to each Municipality at 31st October, 1921

Cash Receipts and Payments on Account of such Credits and Charges made during the Year		Interest at 4% per annum added during Year		Net Amount Credited or Charged in respect of Power Supplied in the Year Ending 31st October, 1921		Accumulated Amount standing as a Credit or Charge on 31st October, 1921	
Credited	Charged	Credited	Charged	Credited	Charged	Credit	Charge
\$.....	\$ 2,040.00	\$ 110.77	\$.....	\$.....	\$ 585.90	\$ 594.01	\$.....
	2,620.66	94.73		616.55		623.49	
1,017.18					136.72		136.72
1,132.89				362.21		362.21	
		105.81		67.73		2,818.80	
	4,660.32	138.93			887.40		885.77
1,984.30				513.20		513.20	
			146.83	1,206.02			2,611.64
492.87			51.74	1,433.39		381.65	
	18,206.57	536.40			1,754.81		1,754.81
		172.46			4,804.34		320.37
			40.22		212.00		1,257.65
1,000.00			104.20		292.01		2,584.63
		29.35		22.98		786.00	
	411.99	15.31			51.19		35.88
	10,710.78	214.21		4,805.87		5,020.08	
	690.76	25.98		795.21		821.19	
376.92				231.20		231.20	
			157.51	1,040.17			3,055.02
		16.73			551.66		116.59
			10.43	198.44			72.82
			12.62		1,083.82		1,412.05
		34.61		74.00		973.81	
129.89				122.02		122.02	
25.45		29.89		862.16		1,650.00	
659.12				235.10		235.10	
346.87			15.61		520.03		631.82
3,691.73					1,497.78		1,497.78
			277.30		526.35		7736.26
	477.82	11.15		20.14		31.29	
	1,301.24	36.40		1,704.52		1,740.92	
		38.91			2.34	1,009.28	
152.69			124.65	255.12			2,922.18
		155.38		1,450.28		5,490.19	
	382.42	15.30			1,136.25		1,120.95
21.30			65.70	591.75			1,107.75
	625.23	20.84		426.17		447.01	
	27,552.72	955.89			1,664.93		709.04
		141.28			2,312.00	1,361.27	
	200.32	4.01		485.51		489.52	
			331.40		1,060.44		9,572.43
286.69				291.92		291.92	
139.23					4,093.91	16,180.60	
	5,079.72	919.90		1,408.73		1,946.94	
		20.70					
24,412.85					24,449.94		24,449.94

NIAGARA

Statement Showing the Net Credit or Charge to each Municipality in respect of thereon, Adjustments Made and Interest added during the Year ; also the Net in the Year Ending 31st October, 1921, and the Accumulated Amount

Municipality	Date Commenced Operating	Net Credit or Charge at 31st October, 1920	
		Credit	Charge
Harriston.....			
Hensall.....	July, 1916	\$.....	\$3,448.69
Hespeler.....	Jan., 1917		498.76
Highgate.....	Feb., 1911	4,977.75	
Ingersoll.....	Dec., 1916		27.76
	May, 1911	11,717.15	
Kitchener.....			
Lambeth.....	Jan., 1911	25,036.30	
Listowel.....	April, 1915		465.53
London.....	June, 1916	1,223.38	
London Railway Commission.....	Jan., 1911	100,090.57	
	Aug., 1914		1,802.05
Lucan.....			
Lynden.....	Feb., 1915	4,482.83	
Markham.....	Nov., 1915		1,488.62
Milton.....	April, 1920	191.47	
Milverton.....	April, 1913	2,047.71	
	June 1916	1,770.27	
Mimico.....	May, 1912	3,762.43	
Mitchell.....	Sept., 1911	2,185.59	
Moorefield.....	Mar., 1918	103.33	
Mount Brydges.....	Mar., 1915	43.53	
New Hamburg.....	Mar., 1911		982.78
Newbury.....	Mar., 1921		
New Toronto.....	Feb., 1914	26,925.97	
Niagara Falls.....	Dec., 1915	5,079.29	
Niagara-on-the-Lake.....	Aug., 1919	438.26	
Norwich.....	May, 1912	2,868.45	
Oil Springs.....	Feb., 1918		251.64
Otterville.....	Feb., 1916	341.57	
Palmerston.....	July, 1916		659.32
Paris.....	Feb., 1914	2,542.11	
Parkhill.....	May, 1920	53.53	
Petrolia.....	May, 1916		130.45
Plattsville.....	Dec., 1914		1,416.85
Port Credit.....	Aug., 1912	1,793.16	
Port Stanley.....	April, 1912	1,318.88	
Preston.....	Jan., 1911	13,115.32	
Princeton.....	Jan., 1915		1,045.51
Queenston.....	Mar., 1921		
Ridgetown.....	Dec., 1915	1,037.50	
Rockwood.....	Sept., 1913		1,450.20
Rodney.....	Feb., 1917	1,343.07	
St. George.....	Sept., 1915	183.44	
St. Jacobs.....	Sept., 1917	220.30	
St. Mary's.....	May, 1911		426.67
St. Thomas.....	April, 1911	25,788.42	
Sarnia.....	Dec., 1916	23,148.99	

SYSTEM—Continued

Power Supplied to it to 31st October, 1920, the Cash Receipts and Payments
Amount Credited or Charged to Each Municipality in respect of Power Supplied
Standing as a Credit or Charge to each Municipality at 31st October, 1921

Cash Receipts and Payments on Account of such Credits and Charges made during the Year		Interest at 4% per annum added during the Year		Net Amount Credited or Charged in respect of Power Supplied in the Year Ending 31st October, 1921		Accumulated Amount standing as a Credit or Charge on 31st October, 1921	
Credited	Charged	Credited	Charged	Credited	Charged	Credit	Charge
\$.....	\$.....	\$.....	\$ 137.95	\$ 3,014.20	\$.....	\$.....	\$ 572.44
498.76					312.18		312.18
	4,735.41	171.24			932.97		519.39
27.76				233.42		233.42	
		468.69			1,808.58	10,377.26	
	24,397.24	770.66			6,748.49		5,338.77
			18.62	486.84		2.69	
	1,232.50	20.18		2,320.09		2,331.15	
	44,284.20	3,967.67			13,253.55	46,520.49	
1,802.05					1,215.27		1,215.27
	3,045.00	148.85		427.48		2,014.16	
1,324.35			37.81	650.50		448.42	
	191.47	3.83		1,258.06		1,261.89	
		81.91		317.03		2,446.65	
		70.81		1,150.05		2,991.13	
	3,762.43	136.10			929.91		793.81
	2,185.55	67.12		587.21		654.37	
		4.13		97.10		204.56	
		1.74			127.70		82.43
982.78					396.67		396.67
				13.17		13.17	
	26,925.97	727.21			9,021.04		8,293.83
	6,038.40	183.66			6,576.59		7,352.04
	438.26	7.77		1,697.81		1,705.58	
		114.74		75.50		3,058.69	
			10.06		41.53		303.23
	352.93	11.36		177.04		177.04	
			26.37	1,783.61		1,097.92	
	2,620.67	78.56			907.46		907.46
		2.14		425.20		480.87	
130.45				3,177.80		3,177.80	
1,200.00			45.89		610.27		873.01
	1,856.92	63.76			165.21		165.21
	1,318.88	39.57		1,729.30		1,768.87	
	13,115.32	373.82			1,371.11		997.29
266.88			34.87		93.72		907.22
					12.60		12.60
	1,037.50	20.75		822.13		842.88	
			58.01		77.46		1,585.67
		53.72		890.26		2,287.05	
		7.34		.69		191.47	
	220.30	4.79			110.24		105.45
426.67				948.58		948.58	
	25,788.42	866.62			1,839.13		972.51
	23,148.99	582.67		14,895.82		15,478.49	

NIAGARA

Statement Showing the Net Credit or Charge to each Municipality in respect of thereon, Adjustments Made and Interest added during the Year ; also the Net in the Year Ending 31st October, 1921, and the Accumulated Amount

Municipality	Date Commenced Operating	Net Credit or Charge at 31st October, 1920	
		Credit	Charge
Scarboro Township.....	Aug., 1918	\$.....	\$ 673.11
Seaforth.....	Nov., 1911	8,159.84	.....
Simcoe.....	Aug., 1915	4,483.57	.....
South Dorchester Township.....	.....	.....	.....
Springfield.....	Aug., 1917	430.79	.....
Stamford Township.....	Nov., 1916	3,353.43	.....
Stratford.....	Jan., 1911	23,841.81	.....
Strathroy.....	Dec., 1914	10,110.18	.....
Streetsville.....	.....	2,626.88	.....
Tavistock.....	Nov., 1916	4,459.79	.....
Thamesford.....	Feb., 1914	191.49	.....
Thamesville.....	Oct., 1915	.....	1,283.27
Thorndale.....	Mar., 1914	.....	953.74
Tilbury.....	April, 1915	.....	3,888.23
Tillsonburg.....	Aug., 1911	3,400.80	.....
Toronto.....	June, 1911	.....	109,738.14
Toronto Township.....	Aug., 1913	984.40	.....
Walkerville.....	Nov., 1914	19,778.95	.....
Wallaceburg.....	Feb., 1915	4,258.94	.....
Wardsville.....	June, 1921	.....	.....
Waterdown.....	Nov., 1911	.....	549.62
Waterford.....	April, 1915	3,426.30	.....
Waterloo.....	Dec., 1910	8,878.64	.....
Watford.....	Sept., 1917	.....	3,181.66
Welland.....	Sept., 1917	6,906.54	.....
Wellesley.....	Nov., 1916	1,360.84	.....
Weston.....	Aug., 1911	10,116.71	.....
West Lorne.....	Jan., 1917	1,556.57	.....
Windsor.....	Oct., 1914	3,872.23	.....
Woodbridge.....	Dec., 1914	183.31	.....
Woodstock.....	Jan., 1911	18,393.61	.....
Wyoming.....	Nov., 1916	.....	1,915.17
Zurich.....	Sept., 1917	1,662.50	.....
		\$519,504.72	\$204,396.93

SYSTEM—Continued

Power Supplied to it to 31st October, 1920, the Cash Receipts and Payments
Amount Credited or Charged to Each Municipality in respect of Power Supplied
Standing as a Credit or Charge to each Municipality at 31st October, 1921

Cash Receipts and Payments on Account of such Credits and Charges made during the Year		Interest at 4% per annum added during the Year		Net Amount Credited or Charged in respect of Power Supplied in the Year Ending 31st October, 1921		Accumulated Amount standing as a Credit or Charge on 31st October, 1921	
Credited	Charged	Credited	Charged	Credited	Charged	Credit	Charge
\$ 673.11	\$.....	\$.....	\$.....	\$.....	\$ 811.91	\$.....	\$ 811.91
	8,128.87	260.85	.....		102.01	189.81	.....
	4,620.95	137.38	.....		560.81	.....	560.81
	86.66	17.23	.....		415.64	.....	54.28
	3,353.43	95.01	.....	319.22	.....	414.23	.....
	23,345.00	720.22	.....	647.45	.....	1,864.48	.....
	9,268.20	344.92	.....	327.12	.....	1,514.02	.....
	.....	105.07	.....	1,793.04	.....	4,524.99	.....
	4,060.00	137.79	.....	581.19	.....	1,118.77	.....
	.....	7.66	.....	19.06	.....	218.21	.....
1,283.27	.....	.....	.....	330.30	.....	330.30	.....
	.....	.....	38.15	.....	918.35	.....	1,910.24
	.....	.....	155.53	1,405.71	.....	.....	2,638.05
	3,000.00	126.03	.....	.....	2,028.45	.....	1,501.62
109,738.14	.....	.....	.....	.....	76,929.90	.....	76,929.90
	984.40	31.98	.....	.....	448.79	.....	416.81
	19,778.95	461.51	.....	14,102.58	.....	14,564.09	.....
	.....	170.36	.....	1,902.78	.....	6,332.08	.....
	.....	.....	.....	.....	34.83	.....	34.83
549.62	.....	.....	.....	.....	155.77	.....	155.77
	3,045.00	106.60	.....	.....	175.80	312.10	.....
	8,878.64	330.96	.....	.....	770.67	.....	439.71
2,181.66	.....	.....	97.28	167.77	.....	.....	929.51
	6,906.54	149.38	.....	.....	2,530.84	.....	2,381.46
	1,360.84	43.75	.....	.....	5.09	38.66	.....
	10,116.71	320.16	.....	.....	1,773.52	.....	1,453.36
	1,603.27	46.70	.....	2,184.30	.....	2,184.30	.....
	3,872.23	90.35	.....	29,282.91	.....	29,373.26	.....
	.....	7.33	.....	.....	293.79	.....	103.15
	18,393.61	507.95	.....	.....	3,196.02	.....	2,688.07
	.....	.....	76.61	418.81	.....	.....	1,572.97
	1,662.50	49.38	.....	.....	582.76	.....	533.38
\$156,955.48	\$394,122.71	\$17,164.92	\$2,075.36	\$109,881.52	\$185,910.45	\$207,815.60	\$190,814.41

NIAGARA SYSTEM

Operating Account for Year

COSTS OF OPERATION AS PROVIDED FOR UNDER SECTIONS 6C AND 23 OF THE ACT

Power Purchased :

To supply Customers on lines operated by the Commission.....	\$2,706.43
To supply the City of St. Catharines and others.....	63,524.17
	<u>\$66,230.60</u>

Cost of operating and maintaining Transmission Lines, etc., including the proportion of Administrative Expenses chargeable to the operation of the lines operated by the Commission.....	973.13
Interest on Capital Investment.....	22,446.85
Provision for Renewals of Lines, etc. (only those operated by the Com- mission).....	896.59
Provision for Sinking Fund.....	8,323.28
	<u><u>\$98,870.45</u></u>

RURAL LINES**Ending 31st October, 1921**

REVENUE FOR PERIOD

Collected from City of St. Catharines and others for Power supplied.....	\$64,853.74
Deduct : Balances owing to these Municipalities.....	841.54
	<u>\$64,012.20</u>
Collected from Sundry Customers on lines operated by the Commission.....	5,327.79
Interest collected from Municipalities operating certain lines.....	21,443.03
Sinking Fund collected from Municipalities operating certain lines.....	7,906.13
	<u>\$98,689.15</u>
Net Deficit (on lines operated by Commission).....	181.30
	<u><u>\$98,870.45</u></u>

NIAGARA

Statement Showing "Cost of Power," Operating Expenses," Fixed Charges" and
Year Ending 31st

	Capital Cost	Cost of Power to Commission	Operation Maintenance & Administrative Expenses	Fixed Interest
Ancaster	\$5,159.03	\$.....	\$.....	\$257.96
Bolton	2,110.45	.....	.....	105.52
Bothwell	6,571.84	.....	.....	355.88
Brampton	588.87	.....	.....	29.44
Chatham	898.18	.....	.....	44.90
Dereham Township	29,243.50	.....	.....	1,483.42
Elora	777.82	.....	.....	38.90
Etobicoke	54,608.68	.....	.....	2,984.10
Georgetown	8,889.59	.....	.....	444.48
Goderich	2,313.36	.....	.....	115.66
Lucan	333.26	.....	.....	24.99
Milton	813.82	.....	.....	40.70
Norwich	34,149.99	.....	.....	1,700.88
Preston	9,155.08	.....	.....	610.34
St. Thomas	1,933.82	.....	.....	96.70
Scarboro Township	29,536.18	.....	.....	1,514.41
Stratford	4,058.47	.....	.....	202.92
Toronto	1,131.22	.....	.....	44.24
Toronto Township	43,309.37	.....	.....	2,165.46
Vaughan Township	21,592.88	.....	.....	1,182.00
Walkerville	44,716.01	.....	.....	2,119.12
Waterdown	11,825.24	.....	.....	591.26
Waterford	3,399.87	.....	.....	170.00
Waterloo	5,062.60	.....	.....	230.60
Weston	5,234.46	.....	.....	209.38
Windsor	24,032.89	.....	.....	688.35
Woodstock	1,088.20	.....	.....	54.42
Welland	31,303.62	4,439.88	.....	1,532.74
St. Catharines	19,582.52	49,334.76	107.10	851.24
Grantham Township	28,289.47	535.10	52.40	1,414.46
Louth Township	2,771.19	.....	.....	138.56
Port Colborne .....	.....	6,295.75	170.14	.....
Merritton .....	.....	2,918.68	158.39	.....
Lines operated by H.E.P.C.—				
Brady & Raymond	817.18	.....	48.01	32.69
Wm. Pullen	74.15	.....	.....	2.97
Innes, Karn & Longworth ..	2,875.20	.....	32.57	115.01
W. G. Bailey	599.21	.....	.....	23.97
Port Dalhousie	5,834.33	2,260.59	75.88	233.37
South Dorchester Twp.	4,561.39	445.84	280.47	213.01
West Flamboro Township ..	9,040.93	.....	31.50	308.52
Copetown District	3,265.11	.....	16.67	74.28
Non-Operating Capital	14,876.47	.....	.....	.....
Totals	\$476,425.45	\$66,230.60	\$973.13	\$22,446.85

RURAL LINES

"Revenue," and the Net "Surplus," or "Deficit" on Each Line for the
October, 1921

Charges		Total Cost of Power, Operating Expenses, Fixed-Charges and interest	Revenue from Municipalities	Net Surplus or Deficit for year	
Renewals	Sinking Fund			Surplus	Deficit
\$	\$ 92.86	\$ 350.82	\$ 350.82	\$	\$
.	37.98	143.50	143.50	. . . . .	. . . . .
.	547.44	903.32	903.32	. . . . .	. . . . .
.	10.60	40.04	40.04	. . . . .	. . . . .
.	16.16	61.06	61.06	. . . . .	. . . . .
.	526.36	2,009.78	2,009.78	. . . . .	. . . . .
.	14.00	52.90	52.90	. . . . .	. . . . .
.	982.96	3,967.06	3,967.06	. . . . .	. . . . .
.	160.00	604.48	604.48	. . . . .	. . . . .
.	41.64	157.30	157.30	. . . . .	. . . . .
.	6.00	30.99	30.99	. . . . .	. . . . .
.	14.64	55.34	55.34	. . . . .	. . . . .
.	609.19	2,310.07	2,310.07	. . . . .	. . . . .
.	137.33	747.67	747.67	. . . . .	. . . . .
.	34.80	131.50	131.50	. . . . .	. . . . .
.	477.74	1,992.15	1,992.15	. . . . .	. . . . .
.	73.04	275.96	275.96	. . . . .	. . . . .
.	15.92	60.16	60.16	. . . . .	. . . . .
.	779.56	2,945.02	2,945.02	. . . . .	. . . . .
.	380.56	1,562.56	1,562.56	. . . . .	. . . . .
.	767.22	2,886.34	2,886.34	. . . . .	. . . . .
.	212.86	804.12	804.12	. . . . .	. . . . .
.	61.20	231.20	231.20	. . . . .	. . . . .
.	91.14	321.74	321.74	. . . . .	. . . . .
.	94.22	303.60	303.60	. . . . .	. . . . .
.	295.21	983.56	983.56	. . . . .	. . . . .
.	19.58	74.00	74.00	. . . . .	. . . . .
.	551.79	6,524.41	6,528.34	3.93	. . . . .
.	295.03	50,588.13	50,588.13	. . . . .	. . . . .
.	509.22	2,511.18	2,528.98	17.80	. . . . .
.	49.88	188.44	188.44	. . . . .	. . . . .
. . . . .	. . . . .	6,465.89	6,782.12	316.23	. . . . .
. . . . .	. . . . .	3,077.07	3,580.65	503.58	. . . . .
.	32.69	128.10	113.35	. . . . .	14.75
.	2.97	7.27	96.00	88.73	. . . . .
.	115.01	314.34	412.05	97.71	. . . . .
.	23.97	58.73	116.59	57.86	. . . . .
.	233.37	2,908.23	2,970.88	62.65	. . . . .
.	152.05	1,173.48	439.99	. . . . .	733.49
.	271.23	733.30	909.53	176.23	. . . . .
.	65.30	185.64	269.40	83.76	. . . . .
\$896.59	\$8,323.28	\$98,870.45	\$99,530.69	\$1,408.48	\$748.24

Note:—Net Surpluses placed to credit of Municipalities. \$841.54

Net deficit for year on lines operated by the Commission. 181.30

NIAGARA RURAL LINES

RESERVE FOR RENEWALS ACCOUNT, 31st OCTOBER, 1921

Total provision for Renewals to 31st October, 1920.....	\$5,929.49
Deduct : Expenditures to 31st October, 1920.....	679.70
	<u>\$5,249.79</u>

Amount added during year ending 31st October, 1921 :	
Amounts charged Municipalities on lines operated by the Commission as part of Cost of Power delivered to them.....	896.59
Interest at 4% per annum on the monthly balances to the credit the account.....	209.99
	<u>1,106.58</u>
Balance carried forward, 31st October, 1921.....	<u>\$6,356.37</u>

NIAGARA RURAL LINES

Statement Showing the Total Sinking Fund Requirements on Each Line—All of which have been Paid—And the Total of such Sinking Fund Payments With Interest allowed thereon to 31st October, 1920

Lines Operated by	Sinking Fund Requirements		Sinking Fund Paid		Interest at 4% per annum allowed on Sinking Fund Payments	Total Sinking Fund Payments and Accumulated Interest to 31st October, 1921
	Period Covered		Amount			
	8 yrs. ending 31st Oct., 1921.	Full period	Amount	Amount		
Ancaster Township.....	7	" "	\$ 728.31	\$ 728.31	\$ 121.13	\$ 849.44
Bolton.....	7	" "	199.91	199.91	19.71	219.62
Bothwell.....	6	" "	2,302.49	2,302.49	157.09	2,459.58
Brampton.....	4	" "	44.16	44.16	3.29	47.45
Chatham.....	6	" "	93.90	93.90	9.56	103.46
Dereham Township.....	4	" "	1,980.89	1,980.89	115.83	2,096.72
Elora.....	8	" "	97.91	97.91	12.55	110.46
Etobicoke.....	6	" "	5,099.40	5,099.40	511.65	5,611.05
Georgetown.....	8	" "	1,104.99	1,104.99	144.29	1,249.28
Goderich.....	8	" "	308.26	308.26	41.88	350.14

7	Grantham Township.....	"	"	3,204.40	"	"	3,204.40	365.17	3,569.57
8	London Abattoir.....	"	"	60.94	"	"	60.94	13.20	74.14
3	Louth Township.....	"	"	207.83	"	"	207.83	13.22	221.05
2	Lucan.....	"	"	12.00	"	"	12.00	12.24	12.24
8	Milton.....	"	"	103.20	"	"	103.20	13.24	116.44
9	Norwich.....	"	"	3,785.16	"	"	3,785.16	433.67	4,218.83
9	Preston.....	"	"	1,378.55	"	"	1,378.55	227.81	1,606.36
8	St. Catharines.....	"	"	1,183.78	"	"	1,183.78	146.14	1,329.92
8	St. Thomas.....	"	"	242.57	"	"	242.57	31.09	273.66
4	Scarboro Township.....	"	"	1,944.05	"	"	1,944.05	102.43	2,046.48
9	Stratford.....	"	"	577.77	"	"	577.77	86.62	664.39
6	Toronto.....	"	"	90.59	"	"	90.59	9.03	99.62
9	Toronto Township.....	"	"	5,267.78	"	"	5,267.78	679.24	5,947.02
7	Vaughan Township.....	"	"	1,444.43	"	"	1,444.43	82.39	1,526.82
7	Walkerville.....	"	"	4,133.45	"	"	4,133.45	425.15	4,558.60
8	Waterdown.....	"	"	1,511.80	"	"	1,511.80	200.50	1,712.30
7	Waterford.....	"	"	280.94	"	"	280.94	20.08	301.02
8	Waterloo.....	"	"	513.32	"	"	513.32	54.07	567.39
9	Welland.....	"	"	4,090.85	"	"	4,090.85	537.16	4,628.01
8	Weston.....	"	"	725.53	"	"	725.53	104.88	830.41
6	Windsor.....	"	"	941.73	"	"	941.73	69.80	1,011.53
9	Woodstock.....	"	"	144.20	"	"	144.20	19.96	164.16
Lines Operated by the Commission :									
8	Brady and Raymond.....	"	"	123.05	"	"	123.05	16.85	139.90
8	W. Pullen.....	"	"	9.70	"	"	9.70	1.21	10.91
9	Innes, Karn and Longworth.....	"	"	445.04	"	"	445.04	61.92	506.96
8	Bailey's Farm.....	"	"	75.50	"	"	75.50	9.17	84.67
10	Port Dalhousie.....	"	"	740.19	"	"	740.19	94.14	834.33
5	South Dorchester Township.....	"	"	287.66	"	"	287.66	14.65	302.31
1	West Flamboro Township.....	"	"	122.05	"	"	122.05	.....	122.05
1	Copetown District.....	"	"	29.39	"	"	29.39	.....	29.39
							\$45,637.67	\$4,970.01	\$50,607.68

NIAGARA RURAL LINES

Statement showing the Surplus or Deficit of each line at 31st October, 1920, and Interest added during the year,
Also the Surplus or Deficit for the year ending 31st October, 1921, and the Net Surplus or Deficit at 31st October, 1921

Municipality	Date Commenced Operation	Surplus or Deficit at 31st October, 1920		Interest on Surplus or Deficit at 4% per annum added during year		Surplus or Deficit for the year ending 31st Oct., 1921		Net Surplus or Deficit on 31st October, 1921	
		Surplus	Deficit	Credited	Charged	Surplus	Deficit	Surplus	Deficit
Grantham Township..	1915								
Welland.....	May, 1913		\$2.72		\$.11	\$17.80		\$14.97	
Port Colborne.....	Mar., 1920	\$55.53		\$2.22		3.93		61.68	
Merrittton.....	Mar., 1920	121.01		4.84		316.23		442.08	
	Nov., 1920					503.58		503.58	
		\$176.54	\$2.72	\$7.06	\$.11	\$841.54		\$1,022.31	
Lines operated by Commission —									
Brady & Raymond...	Oct., 1914						\$14.75	\$274.96	
Wm. Pullen.....	May, 1914	\$278.57		\$11.14		\$88.73		772.45	
Innes, Karn and Longworth.....	Feb., 1913	467.81		18.71		97.71		584.23	
W. G. Bailey.....	Oct., 1914	155.47		6.22		57.86		219.55	
Port Dalhousie.....	Nov., 1912	144.36		5.77		62.65		212.78	
S.Dorchester Twp....	Nov., 1920						733.49		\$733.49
W. Flamboro Twp....	Jan., 1921					176.23		176.23	
Copetown District...	May, 1921					83.76		83.76	
		\$1,880.17	\$2.72	\$75.20	\$.11	\$1,408.48	\$748.24	\$3,346.27	\$733.49

Note:—Net balances owing to Municipalities.....\$1,022.31
Net Surplus to 31st Oct., 1921, on lines operated by the Commission. 1,590.47
Total Surplus.....\$2,612.78

SEVERN SYSTEM

Operating Account for Year Ending 31st October, 1921

COSTS OF OPERATION AS PROVIDED FOR UNDER SECTION 6C AND 23 OF THE ACT		REVENUE FOR PERIOD
Power purchased from Eugenia and Wasdell Systems.....	\$18,781.86	Collected from Municipalities..... \$163,393.68
Costs of operating and maintaining the Generating Plant, Transmission Lines, Stations, etc., including the proportion of Administrative Expenses, chargeable to the operation of this System.....	71,218.95	Power sold to Private Companies..... 28,218.45
Interest on Capital Investment.....	62,716.23	
Provisions for Renewal of Generating Plant, Lines and Stations, etc.....	37,905.42	
Provisions for Contingencies:		Add amounts due by certain Municipalities, being the difference between sums paid and the costs of power supplied to them in the period..... \$24,829.65
By charges against Municipalities.....	\$1,123.19	
By charges against contracts with Private Companies, which purchase power.....	237.03	
By appropriating the net profit on power sold to Private Companies.....	1,102.50	
	2,462.72	
Provisions for Sinking Fund:		Deduct amounts collected from certain Municipalities in excess of the sums required to be paid by them for power supplied in the period. 4,310.56
By charges against Municipalities.....	16,026.69	
By charges against contracts with Private Companies which purchase power.....	3,019.35	
	19,046.04	
		REVENUE.....
		212,131.22
		<u>\$212,131.22</u>

SEVERN

Statement Showing the Amount to be Paid by Each Municipality as the Cost—Under Received by the Commission from Each Municipality on Account of Such Cost, upon ascertainment (by Annual Adjustment) of the Actual Cost of

Municipality	Interim Rates per Horse Power collected by Commission during Year		Share of Capital Cost of System on which Interest and Fixed Charges are Payable	Average Horse Power Supplied in Year after Correction for Power Factor	Cost of Power Purchased from Eugenia and Wasdell Systems	Share of Operating Maintenance and Administrative Expenses
	To Jan. 1, 1921	To Oct. 31, 1921				
Alliston.....	\$50.00	\$60.00	\$77,935.96	133.5	\$460.85	\$2,777.44
Barrie.....	29.00	29.00	167,852.52	788.6	2,722.29	10,213.64
Beeton.....	85.00	85.00	63,249.66	87.5	302.06	2,254.50
Bradford.....	75.00	75.00	51,871.65	53.0	182.97	2,000.13
Coldwater.....	50.00	60.00	18,905.10	67.9	234.39	1,171.64
Collingwood.....	28.00	36.00	255,568.92	859.0	2,965.30	15,398.49
Cookstown.....	60.00	60.00	25,626.45	57.5	198.49	1,221.63
Creemore.....	65.00	65.00	24,581.69	46.2	159.48	1,146.32
Elmvale.....	37.00	37.00	32,665.79	150.8	520.57	2,393.07
Midland.....	28.00	32.00	234,245.91	1,218.3	4,205.62	11,009.06
Penetang.....	32.00	30.00	150,634.94	759.5	2,621.82	7,350.75
Port McNichol.....	85.00	85.00	8,082.26	37.7	130.14	623.98
Stayner.....	40.00	40.00	33,088.63	115.5	398.71	2,010.99
Thornton.....	85.00	85.00	11,395.38	12.3	42.46	552.42
Tottenham.....	85.00	90.00	35,905.11	35.2	121.51	1,364.15
Victoria Harbor.....	50.00	45.00	13,947.41	47.0	162.24	823.46
Waubauskene.....	45.00	45.00	6,847.71	23.2	80.09	565.72
Totals—Municipalities.....			\$1,212,405.09	4,492.7	\$15,508.99	\$62,877.39
Totals—Companies.....			168,128.85	948.1	3,272.87	8,341.56
Non-Operating Capital.....			26,313.30			
Grand Totals.....			\$1,406,847.24	\$5,440.8	\$18,781.86	\$71,218.95

SYSTEM

Section 23 of the Act—of Power Supplied to it by the Commission—The Amount and the Amount remaining to be Credited or Charged to Each Municipality Power Supplied to it in the Year Ending 31st October, 1921

Operating Costs and Fixed Charges.				Total Cost of Power for Year as provided to be Paid under Section 23 of Act	Amounts Paid to the Commission by Each Municipality	Amounts remaining to be credited or charged to each Municipality upon ascertainment of the actual cost of Power by Annual Adjustment		Sinking Fund for the years mentioned hereunder charged as part of the cost of Power in the Year 1920-21
Interest	Renewals	Contingencies	Sinking Fund			Credited	Charged	
\$3,546.87	\$2,143.71	\$ 33.37	\$	\$ 8,962.24	\$ 7,737.34	\$	\$1,224.90	.....
7,632.80	4,613.23	197.15	1,899.73	27,278.84	22,870.11	.....	4,408.73	1918-19
2,878.37	1,739.67	21.87	.....	7,196.47	7,439.61	243.14	.....	.....
2,350.52	1,420.64	13.25	.....	5,967.51	3,971.87	.....	1,995.64	.....
856.21	517.49	16.98	254.27	3,050.98	3,961.50	910.52	.....	1918-19
11,623.49	7,025.19	214.75	5,576.21	42,803.43	29,404.77	.....	13,398.66	1918-19
1,149.81	694.94	14.38	.....	3,279.25	3,255.50	.....	23.75	.....
1,118.21	675.84	11.55	359.63	3,471.03	2,859.45	.....	611.58	1917-18
1,485.43	897.79	37.70	419.15	5,753.71	5,577.94	.....	175.77	1918-19
10,634.42	6,427.40	304.58	3,976.68	36,557.76	37,979.81	1,422.05	.....	1918-19
6,839.06	4,133.50	189.88	2,705.56	23,840.57	23,129.58	.....	710.99	1920-21
377.45	228.13	9.43	105.46	1,474.59	3,202.34	1,727.75	.....	1917-18
1,504.86	909.53	28.88	488.93	5,341.90	4,620.66	.....	721.24	1918-19
518.55	313.41	3.07	.....	1,429.91	1,044.06	.....	385.85	.....
1,633.85	987.49	8.80	.....	4,115.80	3,135.04	.....	980.76	.....
622.97	376.52	11.75	157.95	2,154.89	2,161.99	7.10	.....	1917-18
311.12	188.04	5.80	83.12	1,233.89	1,042.11	.....	191.78	1917-18
\$55,083.99	\$33,292.52	\$1,123.19	\$16,026.69	\$183,912.77	\$163,393.68	\$4,310.56	\$24,829.65	
7,632.24	4,612.90	237.03	3,019.35	27,115.95	28,218.45	*1,102.50	.....
.....
\$62,716.23	\$37,905.42	\$1,360.22	\$19,046.04	\$211,028.72	\$191,612.13			

* Note : — Transferred to credit of Contingency Reserve.

SEVERN SYSTEM

Reserve for Contingencies Account, 31st October, 1921

Balance brought forward, 31st October, 1920.....	\$5,674.94
Added during the year ending 31st October, 1921:	
Amounts charged to Municipalities as part of the Cost of Power delivered to them.....	\$1,123.19
Provision against equipment employed in respect of contracts with Sundry Companies.....	237.03
Net profits from contracts with Sundry Power Customers.....	1,102.50
Interest at 4% per annum on monthly balances to the credit of the account.....	227.00
	<u>2,689.72</u>
	\$8,364.66
Expenditures during the year ending 31st October, 1921.....	1,236.58
Balance carried forward 31st October, 1921.....	<u>\$7,128.08</u>

SEVERN

Statement Showing the Total Sinking Fund Requirements to be met by each
Deferred by the Commission under Section 23 of the Act, Sinking Fund
than five Years, and the Total of such Sinking Fund Payments

Municipality	Total Sinking Fund Requirements Chargeable to the Municipality under the Act		Sinking Fund Requirements the Payment of which has been deferred	
	(a) For Period of	(b) Amount	(a) For Period of	(b) Amount
Alliston.....	4 yrs. ending 31 Oct. 1921	\$ 4,466.91	4 yrs. ending 31 Oct. 1921	\$ 4,466.91
Barrie.....	5 " " " 1921	10,080.34	2 " " " 1921	5,495.17
Beeton.....	4 " " " 1921	3,875.07	4 " " " 1921	3,875.07
Bradford.....	4 " " " 1921	2,835.25	4 " " " 1921	2,835.25
Coldwater.....	5 " " " 1921	1,304.27	2 " " " 1921	633.23
Collingwood.....	5 " " " 1921	24,840.71	2 " " " 1921	10,410.17
Cookstown.....	4 " " " 1921	1,599.66	4 " " " 1921	1,599.66
Creemore.....	5 " " " 1921	2,012.62	3 " " " 1921	1,258.87
Elmvale.....	5 " " " 1921	2,115.55	2 " " " 1921	1,117.15
Midland.....	5 " " " 1921	16,638.25	2 " " " 1921	7,960.10
Penetang.....	5 " " " 1921	10,078.13		
Port McNichol.....	5 " " " 1921	646.36	3 yrs. ending 31 Oct. 1921	440.29
Stayner.....	5 " " " 1921	2,186.68	2 " " " 1921	1,152.42
Thornton.....	3 " " " 1921	572.72	3 " " " 1921	572.72
Tottenham.....	4 " " " 1921	1,897.44	4 " " " 1921	1,897.44
Victoria Harbor.....	5 " " " 1921	993.77	3 " " " 1921	683.60
Waubashene.....	5 " " " 1921	507.95	3 " " " 1921	343.42
Totals—Municipalities.....		\$86,651.68		\$44,741.47
Totals—Companies (from commencement of operations.....		14,979.29		
Grand Totals.....		\$101,630.97		\$44,741.47

SEVERN SYSTEM

Reserve for Renewals Account, 31st October, 1921

Total provision for Renewals to 31st October, 1920.....	\$189,846.80
Deduct expenditures to 31st October, 1920.....	4,549.78
Balance brought forward 31st October, 1920.....	\$185,297.02
Added during the year ending 31st October, 1921 :	
Amounts charged to Municipalities as part of the Cost of Power delivered to them.....	\$33,292.52
Provision against equipment employed in respect of contracts with Sundry Companies.....	4,612.90
Interest at 4% per annum on monthly balances to the credit of the account.....	7,411.88
Renewals reserve provided on second-hand equipment purchased.....	84.00
	45,401.30
	\$230,698.32
Expenditures during the year ending 31st October, 1921.....	3,351.11
Balance carried forward 31st October, 1921.....	\$227,347.21

SYSTEM

Municipality, Sinking Fund Requirements the Payment of which has been Payments made by Certain Municipalities which have been Operating more including Interest allowed thereon to 31st October, 1921

Sinking Fund Requirements Paid (or Charged) as part of the Cost of Power		Interest at 4% per Annum allowed on Sinking Fund Requirements which have been paid	Total Sinking Fund Payments and Accumulated Interest to the credit of the Municipality on 31st October, 1921
(a) For Period of	(b) Amount		
3 years ending 31 Oct., 1919.....	\$ 4,585.17	\$ 161.82	\$ 4,746.99
3 years ending 31 Oct., 1919.....	671.04	25.51	696.55
3 years ending 31 Oct., 1919.....	14,430.54	515.42	14,945.96
2 years ending 31 Oct., 1918.....	753.75	15.77	769.52
3 " " " 1919.....	998.40	32.52	1,030.92
3 " " " 1919.....	8,678.15	265.37	8,943.52
5 " " " 1921.....	10,078.13	643.34	10,721.47
2 " " " 1918.....	206.07	4.02	210.09
3 " " " 1919.....	1,034.26	31.15	1,065.41
2 years ending 31 Oct., 1918.....	310.17	6.09	316.26
2 " " " 1918.....	164.53	3.25	167.78
	\$41,910.21	\$1,704.26	\$43,614.47
(From commencement of operations.	14,979.29	1,367.46	16,346.75
	\$56,889.50	\$3,071.72	\$59,961.22

SEVERN

Statement Showing the Net Credit or Charge to each Municipality in respect of thereon, and Interest added during the Year ; also the Net Amount Credited or 31st October, 1921, and the Accumulated Amount Standing as a

Municipality	Date Commenced Operating	Net Credit or Charge at 31st October, 1920	
		Credit	Charge
Alliston.....	June, 1918	\$.....	\$ 6,468.46
Barrie.....	April, 1913	11,823.78	.....
Beeton.....	Aug., 1918	.....	4,324.94
Bradford.....	Oct., 1918	.....	6,225.98
Coldwater.....	Mar., 1913	.....	2,647.13
Collingwood.....	Mar., 1913	5,602.29	.....
Cookstown.....	May, 1918	.....	1,599.76
Creemore.....	Nov., 1914	2,068.98	.....
Elmvale.....	June, 1913	672.37	.....
Midland.....	July, 1911	.....	13,350.66
Penetang.....	July, 1911	3,174.99	.....
Port McNichol.....	Jan., 1915	.....	1,438.71
Stayner.....	Oct., 1913	160.73	.....
Thornton.....	Nov., 1918	.....	1,229.37
Tottenham.....	Oct., 1918	.....	3,403.08
Victoria Harbor.....	July, 1914	458.77	.....
Waubashene.....	Dec., 1914	.....	25.63
		\$23,961.91	\$40,713.72

SYSTEM

Power Supplied to it to 31st October, 1920, the Cash Receipts and Payments Charged to Each Municipality in respect of Power Supplied in the Year Ending Credit or Charge to each Municipality at 31st October, 1921

Cash Receipts and Payments on Account of such Credits and Charges made during the Year		Interest at 4% per annum added during the Year		Net Amount Credited or Charged in respect of Power Supplied in the Year Ending 31st October, 1921		Accumulated Amount standing at the Creditor Charge on the 31st October, 1921	
Credited	Charged	Credited	Charged	Credited	Charged	Credit	Charge
\$.....	\$.....	\$.....	\$ 258.74	\$.....	\$1,224.90	\$.....	\$7,952.10
	12 050.00	433.54			4,408.73		4,201.41
			173.00	243.14			4,254.80
			249.04		1,995.64		8,470.66
			105.88	910.52			1,842.49
		224.09			13,398.66		7,572.28
			63.99		23.75		1,687.50
	73.09	82.03			611.58	1,466.34	
		26.89			175.77	523.49	
			534.03	1,422.05			12,462.64
	3,174.99	74.08			710.99		636.91
			57.55	1,727.75		231.49	
	160.73	2.68			721.24		718.56
			49.17		385.85		1,664.39
			136.12		980.76		4,519.96
		18.35		7.10		484.22	
25.63					191.78		191.78
25.63	\$15,458.81	\$861.66	\$1,627.52	\$4,310.56	\$24,829.65	\$2,705.54	\$56,175.48

EUGENIA

Operating Account for Year

COSTS OF OPERATION AS PROVIDED FOR UNDER SECTIONS 6C AND 23 OF THE ACT

Costs of operating and maintaining the Generating Plant, Transmission Lines, Stations, etc., including the proportion of Administrative Expenses chargeable to the operation of this System	\$85,599.54	
Interest on Capital Investment	88,086.94	
Provision for Renewal of Generating Plant, Lines, Stations, etc.	44,301.87	
Provision for Contingencies :		
By charges against Municipalities	\$1,142.90	
By charges against contracts with Private Companies, also the Severn System which purchased power	31.72	1,174.62
Provision for Sinking Fund :		
By charges against Municipalities	11,622.58	
By charges against contracts with Private Companies, also the Severn System which purchased power	1,533.96	13,156.54
		<u>\$232,319.51</u>

SYSTEM

Ending 31st October, 1921

REVENUE FOR PERIOD

Collected from Municipalities.....	\$199,693.34	
Power sold to Private Companies and to Severn System.....	10,486.96	
	<u>\$210,180.30</u>	
Add amounts due by certain Municipalities, being the difference between sums paid and the Costs of Power supplied to them in the period.....	\$32,913.89	
Deduct amounts collected from certain Municipalities in excess of the sums required to be paid by them for power supplied in the period..	<u>10,774.68</u>	22,139.21
REVENUE.....		<u>\$232,319.51</u>
		<u><u>\$232,319.51</u></u>

EUGENIA

Statement Showing the Amount to be Paid by Each Municipality as the Cost—Under Received by the Commission from Each Municipality on Account of Such Cost, upon ascertainment (by Annual Adjustment) of the Actual Cost

Municipality	Interim Rates per Horse Power collected by Commission during Year		Share of Capital Cost of System on which Interest and Fixed Charges are Payable	Average Horse Power Supplied in Year after Correction for Power Factor	Share of Operating	
	To Dec. 31, 1920	To Oct. 31, 1921			Operating Maintenance and Administrative Expenses	Interest
Arthur.....	\$65.00	\$85.00	\$ 91,153.34	134.2	\$ 3,990.42	\$4,145.67
Chatsworth.....	45.00	60.00	11,561.72	28.5	743.21	525.68
Chesley.....	45.00	55.00	101,463.04	241.6	4,589.58	4,493.21
Dundalk.....	38.00	50.00	31,557.83	97.7	1,855.25	1,434.55
Durham.....	45.00	50.00	65,085.90	220.2	4,261.04	2,797.17
Elmwood.....	45.00	55.00	21,666.06	54.3	1,230.87	958.08
Flesherton.....	36.00	45.00	17,536.96	47.1	1,243.70	797.30
Grand Valley.....	60.00	70.00	35,442.21	62.9	1,323.97	1,611.78
Hanover.....	35.00	40.00	336,216.42	1,040.7	14,694.59	14,538.86
Holstein.....	75.00	90.00	12,376.06	9.5	881.70	556.01
Kincardine.....		48.00	84,791.03	58.0	2,444.89	2,672.74
Lucknow.....		60.00	44,888.46	39.3	1,341.37	1,655.30
Markdale.....	35.00	50.00	25,120.32	85.2	1,375.78	1,141.81
Mount Forest.....	55.00	65.00	92,410.90	185.6	4,642.30	4,179.87
Neusdadt.....	45.00	55.00	61,518.45	126.3	2,389.31	2,706.96
Orangeville.....	55.00	65.00	82,893.20	142.1	3,274.25	3,727.16
Owen Sound.....	28.00	30.00	432,507.20	1,391.2	18,941.21	19,644.69
Priceville.....		47.00	5,738.11	4.1	206.48	171.22
Ripley.....		60.00	46,578.74	38.7	1,349.58	1,711.12
Shelburne.....	38.00	50.00	66,625.88	178.4	3,329.15	3,029.11
Tara.....	85.00	90.00	41,424.86	41.2	1,183.08	1,880.33
Teeswater.....	40.00	40.00	40,906.53	60.4	1,648.72	1,649.55
Wingham.....	45.00	45.00	198,167.65	284.4	6,051.96	7,972.79
Totals—Municipalities.....			\$1,947,630.87	4,571.6	\$82,992.41	\$84,000.96
Totals—Hornings Mills, Walkerton Quarry and Severn System (which purchase power).....			91,758.92	126.9	2,607.13	4,085.98
Non-Operating Capital.....			7,178.58			
Grand Totals.....			\$2,046,568.37	4,698.5	\$85,599.54	\$88,086.94

SYSTEM

Section 23 of the Act—of Power Supplied to it by the Commission—The Amount and the Amount remaining to be Credited or Charged to Each Municipality of Power Supplied to it in the Year Ending 31st October, 1921

Costs and Fixed Charges.			Total Cost of Power for Year as provided to be Paid under Section 23 of Act	Amounts Paid to the Commission by Each Municipality	Amounts remaining to be credited or charged to each Municipality upon ascertainment of the actual cost of Power by Annual Adjustment		Sinking Fund for the years mentioned hereunder charged as part of the cost of Power in the Year 1920-21
Renewals	Contingencies	Sinking Fund			Credited	Charged	
\$ 2,250.35	\$ 33.55	\$.....	\$10,419.99	\$10,902.57	\$ 482.58	\$.....	.....
263.50	7.13	207.96	1,747.48	1,558.37	.....	189.11	1920-21
2,256.11	60.40	.....	11,399.30	12,855.64	1,456.34	.....	.....
681.20	24.42	567.51	4,562.93	4,617.56	54.63	.....	1920-21
1,271.74	55.05	1,106.57	9,491.57	10,900.28	1,408.71	.....	1920-21
475.76	13.58	.....	2,678.29	2,872.69	194.40	.....	.....
392.29	11.78	315.42	2,760.49	2,030.16	.....	730.33	1920-21
854.51	15.72	.....	3,805.98	4,291.73	485.75	.....	.....
6,807.60	260.18	.....	36,301.25	41,158.44	4,857.21	.....	.....
317.98	2.37	.....	1,758.06	830.12	.....	927.94	.....
1,505.06	14.50	.....	6,637.19	2,781.60	.....	3,855.59	.....
925.70	9.82	.....	3,932.19	2,355.00	.....	1,577.19	.....
528.04	21.30	.....	3,066.93	4,009.74	942.81	.....	.....
2,173.24	46.40	1,653.59	12,695.40	11,707.27	.....	988.13	1920-21
1,395.83	31.57	.....	6,523.67	6,839.37	315.70	.....	.....
1,982.36	35.52	.....	9,019.31	8,984.21	.....	35.10	.....
9,226.81	347.80	7,771.53	55,932.04	41,255.19	.....	14,676.85	1920-21
95.68	1.03	.....	474.41	193.86	.....	280.55	.....
960.57	9.68	.....	4,030.95	2,216.50	.....	1,814.45	.....
1,491.44	44.60	.....	7,894.30	8,470.85	576.55	.....	.....
1,058.09	10.30	.....	4,131.80	3,687.00	.....	444.80	.....
882.09	15.10	.....	4,195.46	2,378.33	.....	1,817.13	.....
4,277.73	71.10	.....	18,373.58	12,796.86	.....	5,576.72	.....
\$42,073.70	\$1,142.90	\$11,622.58	\$221,832.55	\$199,693.34	\$10,774.68	\$32,913.89	
2,228.17	31.72	1,533.96	10,486.96	10,486.96	.....	.....
\$44,301.87	\$1,174.62	\$13,156.54	\$232,319.51	\$210,180.30	\$10,774.68	\$32,913.89	

EUGENIA SYSTEM

Reserve for Contingencies Account, 31st October, 1921

Balance brought forward 31st October, 1920.....	\$13,430.94
Added during the year ending 31st October, 1921 :	
Amounts charged to Municipalities as part of the Cost of Power delivered to them.....	\$1,142.90
Provision against equipment employed in respect of contracts with Sundry Companies.....	31.72
Interest at 4% per annum on monthly balances to the credit of the account.....	537.24
	<u>1,711.86</u>
	\$15,142.80
Expenditures during the year ending 31st October, 1921.....	<u>3,063.22</u>
Balance carried forward, 31st October, 1921.....	\$12,079.58

EUGENIA

Statement Showing the Total Sinking Fund Requirements to be Met by Each Municipality under Section 23 of the Act.—Sinking Fund Payments made the Total of such Sinking Fund Payments,

Municipality	Total Sinking Fund Requirements Chargeable to the Municipality under the Act		Sinking Fund Requirements the Payment of which has been deferred	
	(a) For Period of	(b) Amount	(a) For Period of	(b) Amount
Arthur.....	1 yr. ending 31 Oct., 1921	\$ 1,640.04	1 yr. ending 31 Oct., 1921	\$ 1,640.04
Chatsworth.....	1 " " " 1921	207.96		
Chesley.....	1 " " " 1921	1,777.53	1 yr. ending 31 Oct., 1921	1,777.53
Dundalk.....	1 " " " 1921	567.51		
Durham.....	1 " " " 1921	1,106.57		
Elmwood.....	1 " " " 1921	379.03	1 yr. ending 31 Oct., 1921	379.03
Flesherton.....	1 " " " 1921	315.42		
Grand Valley.....	1 " " " 1921	637.62	1 yr. ending 31 Oct., 1921	637.62
Hanover.....	1 " " " 1921	5,751.64	1 " " " 1921	5,751.64
Holstein.....	1 " " " 1921	219.96	1 " " " 1921	219.96
Kincardine.....	1 " " " 1921	1,057.35	1 " " " 1921	1,057.35
Lucknow.....	1 " " " 1921	654.84	1 " " " 1921	654.84
Markdale.....	1 " " " 1921	451.71	1 " " " 1921	451.71
Mount Forest.....	1 " " " 1921	1,653.59		
Neustadt.....	1 " " " 1921	1,070.88	1 yr. ending 31 Oct., 1921	1,070.88
Orangeville.....	1 " " " 1921	1,474.48	1 " " " 1921	1,474.48
Owen Sound.....	1 " " " 1921	7,771.53		
Priceville.....	1 " " " 1921	67.73	1 yr. ending 31 Oct., 1921	67.73
Ripley.....	1 " " " 1921	676.93	1 " " " 1921	676.93
Shelburne.....	1 " " " 1921	1,198.33	1 " " " 1921	1,198.33
Tara.....	1 " " " 1921	743.87	1 " " " 1921	743.87
Teeswater.....	1 " " " 1921	652.56	1 " " " 1921	652.56
Wingham.....	1 " " " 1921	3,154.07	1 " " " 1921	3,154.07
Totals—Municipalities.....		\$33,231.15		\$21,608.57
Totals—Companies (from commencement of operation).....		1,533.96		
Grand Totals.....		\$34,765.11		\$21,608.57

EUGENIA SYSTEM

Reserve for Renewals Account, 31st October, 1921

Total provision for renewals to 31st October, 1920.....	\$136,913.19
Deduct expenditures to 31st October, 1920.....	1,150.99
Balance brought forward, 31st October, 1920.....	\$135,762.20
Added during the year ending 31st October, 1921 :	
Amounts charged to Municipalities as part of the Cost of Power delivered to them.....	\$42,073.70
Provision against equipment employed in respect of contracts with Sundry Companies.....	2,228.17
Interest at 4% per annum on the monthly balances to the credit of the account.....	5,430.49
Renewal Reserve provided on second-hand equipment purchased from other Systems.....	1,508.70
	51,241.06
	\$187,003.26
Expenditures during the year ending 31st October, 1921.....	5,173.05
Balance carried forward, 31st October, 1921.....	\$181,830.21

SYSTEM

city, Sinking Fund Requirements, the Payment of which has been Deferred by by Certain Municipalities which have been Operating more than Five Years, and to 31st October, 1921

Sinking Fund Requirements Paid (or Charged) as part of the Cost of Power		Total Sinking Fund Payments to the credit of the Municipality on 31st October, 1921
(a) For Period of	(b) Amount	
1 year ending 31 Oct., 1921	\$ 207.96	\$ 207.96
1 year ending 31 Oct., 1921	567.51	567.51
1 year ending 31 Oct., 1921	1,106.57	1,106.57
1 year ending 31 Oct., 1921	315.42	315.42
1 year ending 31 Oct., 1921	1,653.59	1,653.59
1 year ending 31 Oct., 1921	7,771.53	7,771.53
	\$11,622.58	\$11,622.58
	1,533.96	1,533.96
	\$13,156.54	\$13,156.54

EUGENIA

Statement Showing the Net Charge to each Municipality in respect of Power Supplied
Interest added during the Year—also the Net Amount Credited or
Year Ending 31st October, 1921, and the
Charge to each Municipality

Municipality	Date Commenced Operating	Net Charge at 31st October, 1920
Arthur	Dec., 1916	\$ 9,613.89
Chatsworth	Dec., 1915	1,579.36
Chesley	July, 1916	7,799.11
Dundalk	Dec., 1915	3,810.77
Durham	Dec., 1915	2,799.53
Elmwood	April, 1918	1,066.99
Flesherton	Dec., 1915	2,127.98
Grand Valley	Dec., 1916	2,451.57
Hanover	Sept., 1916	2,017.61
Holstein	May, 1916	3,569.71
Kincardine	March, 1921	.....
Lucknow	Jan., 1921	.....
Markdale	March, 1916	1,911.97
Mount Forest	Dec., 1915	15,987.84
Neustadt	Dec., 1918	2,321.45
Orangeville	July, 1916	8,283.21
Owen Sound	Dec., 1915	1,474.45
Priceville	March, 1921	.....
Ripley	Jan., 1921	.....
Shelburne	July, 1916	3,794.42
Tara	Feb., 1918	5,402.95
Teeswater	Dec., 1920	.....
Wingham	Dec., 1920	.....
		<u>\$76,012.81</u>

SYSTEM

to it to 31st October, 1920, the Cash Receipts on Account of such Charges and Charged to each Municipality in respect of Power Supplied in the Accumulated Amount Standing as a Credit or at 31st October, 1921

Cash Receipts on Account of such Charges made during the Year	Interest at 4% per annum added during Year	Net Amount Credited or Charged in respect of Power Supplied in the Year Ending 31st October, 1921		Accumulated Amount standing as a Credit or Charge on 31st October, 1921	
		Credited	Charged	Credit	Charge
....\$.	\$384.55	\$482.58	....\$. ....	....\$. ....	\$9,515.86
.....	63.17	.....	189.11	.....	1,831.64
.....	311.96	1,456.34	.....	.....	6,654.73
.....	152.43	54.63	.....	.....	3,908.57
.....	111.98	1,408.71	.....	.....	1,502.80
.....	42.68	194.40	.....	.....	915.27
.....	85.12	.....	730.33	.....	2,943.43
.....	98.06	485.75	.....	.....	2,063.88
.....	80.70	4,857.21	.....	2,758.90	.....
.....	142.79	.....	927.94	.....	4,640.44
.....	.....	.....	3,855.59	.....	3,855.59
.....	.....	.....	1,577.19	.....	1,577.19
409.75	68.28	942.81	.....	.....	627.69
.....	639.51	.....	988.13	.....	17,615.48
.....	92.86	315.70	.....	.....	2,098.61
.....	331.33	.....	35.10	.....	8,649.64
.....	58.98	.....	14,676.85	.....	16,210.28
.....	.....	.....	280.55	.....	280.55
.....	.....	.....	1,814.45	.....	1,814.45
54.82	150.68	576.55	.....	.....	3,313.73
.....	216.12	.....	444.80	.....	6,063.87
.....	.....	.....	1,817.13	.....	1,817.13
.....	.....	.....	5,576.72	.....	5,576.72
\$464.57	\$3,031.20	\$10,774.68	\$32,913.89	\$2,758.90	\$103,477.55

EUGENIA RURAL LINES

Operating Account for Year Ending 31st October, 1921

Interest on Capital Investment....\$108.34	Revenue—
Provision for Sinking Fund..... 34.65	Interest and Sinking Fund collected
	from the Municipalities which
	operate lines.....\$142.99
<u>\$142.99</u>	<u>\$142.99</u>

Statement Showing Interest and Sinking Fund Charges, 31st October, 1921

	Capital Cost	Interest	Sinking Fund	Total Interest and Sinking Fund Charges	Revenue from Municipalities
Flesherton.....	\$ 852.58	\$ 42.30	\$12.29	\$ 54.59	\$ 54.59
Markdale.....	1,242.65	66.04	22.36	88.40	88.40
Totals.....	\$2,095.23	\$108.34	\$34.65	\$142.99	\$142.99

Statement Showing the Total Sinking Fund Requirements of Each Municipality and the Total of the Sinking Fund Payments with Interest Allowed thereon to 31st October, 1921

	Total Sinking Fund Requirements		Interest at 4% per annum allowed on Sinking Fund Payments	Total Sinking Fund Payments and accumulated Interest to 31st October, 1921
	Period Covered	Amount		
Flesherton..	4 yrs. end. 31st Oct., 1921	\$ 37.65	\$1.99	\$ 39.64
Markdale...	5 " " " "	97.89	7.18	105.07
Totals....		\$135.54	\$9.17	\$144.71

WASDELLS SYSTEM

Operating Account for Year Ending 31st October, 1921

COSTS OF OPERATION AS PROVIDED FOR
UNDER SECTIONS 6C AND 23 OF THE ACT

Cost of operating and maintaining the Generating Plant, Transmission Lines, Stations, etc., including the proportion of Administrative Expenses, chargeable to the operation of this System.....	\$15,369.03
Interest on Capital Investment..	14,672.10
Provision for Renewal of Generating Plant, Lines and Stations, etc.	6,449.28
Provision for Contingencies.....	240.64
Provision for Sinking Fund :	
By charges against Municipalities.....	\$2,529.75
By charges against contract with Private Company which purchased power	3,131.38
	<u>5,661.13</u>
	<u>\$42,392.18</u>

REVENUE FOR PERIOD

Collected from Municipalities....	\$23,774.07
Power sold to Private Company and to Severn System.....	20,803.60
	<u>\$44,577.67</u>
Add amount due by certain Municipality, being the difference between the sum paid and the cost of power supplied to it in the period.....	\$180.96
Deduct amounts collected from certain Municipalities in excess of the sums required to be paid by them for power supplied in the period...	2,366.45
	<u>2,185.49</u>
Revenue.....	<u>\$42,392.18</u>
	<u>\$42,392.18</u>

WASDELLS

Statement Showing the Amount to be Paid by Each Municipality as the Cost—Under Received by the Commission from Each Municipality on Account of Such Cost, upon ascertainment (by Annual Adjustment) of the Actual Cost of

Municipality	Interim Rates per Horse Power collected by Commission during Year		Share of Capital Cost of System on which Interest and Fixed Charges are Payable	Average Horse Power Supplied in Year after Correction for Power Factor	Share of Operating	
	To Jan. 1, 1921	To Oct. 31, 1921			Operating Maintenance and Administrative Expenses	Interest
Beaverton.....	\$55.00	\$60.00	\$ 33,128.70	107.4	\$ 2,104.95	\$ 1,491.91
Brechin.....	85.00	90.00	23,570.97	39.0	948.28	1,066.87
Cannington.....	65.00	65.00	27,686.80	73.8	1,411.55	1,259.76
Kirkfield.....	45.00	60.00	7,960.70	13.9	362.67	362.04
Sunderland.....	85.00	85.00	27,955.40	49.5	970.87	1,271.97
Woodville.....	80.00	80.00	28,662.35	57.2	1,133.54	1,304.14
Totals —Municipalities.....			148,964.92	340.8	6,931.86	\$6,756.69
Totals—Companies and Severn System.....			174,108.15	621.7	8,437.17	7,915.41
Grand Totals.....			\$322,983.07	962.5	\$15,369.03	\$14,672.10

WASDELLS SYSTEM

Reserve for Contingencies Account, 31st October, 1921

Balance brought forward, 31st October, 1920.....		Nil
Amounts charged to Municipalities as part of the Cost of Power delivered to them.....	\$ 85.21	
Provision against equipment employed in respect of contracts with Severn System and Companies.....	155.43	\$240.64
Balance carried forward, 31st October, 1921.....		\$240.64

SYSTEM

Section 23 of the Act—of Power Supplied to it by the Commission—The Amount and the Amount remaining to be Credited or Charged to Each Municipality Power Supplied to it in the Year Ending 31st October, 1921

Costs and Fixed Charges.			Loss from Sale of Power to Companies charged to the Municipalities in proportion to their Maintenance Costs	Total Cost of Power for Year as provided to be Paid under Section 23 of Act	Amounts Paid to the Commission by Each Municipality	Amounts remaining to be credited or charged to each Municipality upon ascertainment of the actual cost of Power by Annual Adjustment		Sinking Fund for the years mentioned hereunder charged as part of the cost of Power in the Year 1920-21
Renewals	Contingencies	Sinking Fund				Credited	Charged	
\$655.78	\$26.85	\$590.21	\$716.38	\$5,586.08	\$6,071.70	\$485.62	\$.....	1920-21
468.95	9.75	422.06	321.81	3,237.72	3,324.81	87.09		1920-21
553.74	18.45	498.36	472.88	4,214.74	4,796.95	582.21	.....	1920-21
159.14	3.48	.....	94.75	982.08	801.12	.....	180.96	.....
559.11	12.38	503.20	331.97	3,649.50	4,203.81	554.31	.....	1920-21
573.25	14.30	515.92	377.31	3,918.46	4,575.68	657.22	.....	1920-21
2,969.97	85.21	2,529.75	2,315.10	21,588.58	23,774.07	2,366.45	180.96	
3,479.31	155.43	3,131.38	2,315.10	20,803.60	20,803.60	.....	.....
\$6,449.28	\$240.64	\$5,661.13	.....	\$42,392.18	\$44,577.67			

WASDELLS SYSTEM

Reserve for Renewals Account, 31st October, 1921

Total provision for renewals to 31st October, 1920.....	\$34,416.69
Deduct :	
Expenditures to 31st October, 1920.....	3,143.18
Balance brought forward, 31st October, 1920.....	31,273.51
Added during the year ending 31st October, 1921....	
Amounts charged to Municipalities as part of the Cost of Power delivered to them.....	\$2,969.97
Provision against equipment employed in respect of Severn System and Companies.....	3,479.31
Interest at 4% per annum on the monthly balances to the credit of the account.....	1,250.94
	7,700.22
Balance carried forward, 31st October, 1921.....	\$38,973.73

WASDELLS

Statement Showing the Sinking Fund Requirements to be Met by Each Municipality the Commission under Section 23 of the Act.—Sinking Fund Payments made the Total of the Sinking Fund Payments, including

Municipality	Total Sinking Fund Requirements Chargeable to the Municipality under the Act		Sinking Fund Requirements the Payment of which has been deferred	
	(a) For Period of	(b) Amount	(a) For Period of	(b) Amount
Beaverton.....	2 yrs. ending 31 Oct. 1921	\$1,227.42	2 yrs. ending 31 Oct. 1921	
Brechin.....	2 " " " 1921	840.76		
Cannington.....	2 " " " 1921	1,096.53		
Kirkfield.....	2 " " " 1921	191.22		\$191.22
Sunderland.....	2 " " " 1921	1,022.45		
Woodville.....	2 " " " 1921	998.86		
Totals—Municipalities.....		\$5,377.24		\$191.22
Totals—Companies (from commencement of operations).....		5,771.63		
Grand Totals.....		\$11,148.87		\$191.22

WASDELLS

Statement Showing the Net Charge to Each Municipality in Respect of Power
Net Amount Credited or Charged to Each Municipality in Respect of
Accumulated Amount Standing as a Charge to

Municipality	Date Commenced Operating	Net Charge at 31st October, 1920
Beaverton.....	Nov., 1914	\$ 5,036.16
Brechin.....	Jan., 1915	3,622.39
Cannington.....	Nov., 1914	4,065.25
Kirkfield.....	June, 1920	121.21
Sunderland.....	Nov., 1914	3,982.47
Woodville.....	Nov., 1914	3,656.06
Totals.....		\$20,483.54

SYSTEM

cipality, Sinking Fund Requirements, the Payment of which has been Deferred by
by Certain Municipalities which have been Operating more than Five Years, and
Interest allowed thereon, to 31st October, 1921

Sinking Fund Requirements Paid (or Charged) as part of the Cost of Power		Interest at 4% per Annum allowed on Sinking Fund Requirements which have been paid	Total Sinking Fund Payments to the credit of the Municipality on 31st October, 1921
(a) For Period of	(b) Amount		
2 years ending 31 Oct., 1921.....	\$1,227.42	\$25.49	\$1,252.91
2 " " " 1921.....	840.76	16.75	857.51
2 " " " 1921.....	1,096.53	23.93	1,120.46
2 years ending 31 Oct., 1921.....	1,022.45	20.77	1,043.22
2 " " " 1921.....	998.86	19.31	1,018.17
	\$5,186.02	\$106.25	\$ 5,292.27
(From commencement of operations)	5,771.63	105.61	5,877.24
	\$10,957.65	\$211.86	\$11,169.51

SYSTEM

Supplied to it to 31st October, 1920—Interest Added During the Year, Also the
Power Supplied in the Year Ending 31st October, 1921, and the
Each Municipality at 31st October, 1921

Interest at 4% per annum added during the Year	Net Amount Credited or Charged in respect of Power Supplied in the Year ending 31st October, 1921		Accumulated Amount Standing as a Charge on 31st October, 1921
	Charged	Charged	
\$201.45	\$485.62	.....	\$4,751.99
144.89	87.09	.....	3,680.19
162.61	582.21	.....	3,645.65
4.85	.....	180.96	307.02
159.30	554.31	.....	3,587.46
146.24	657.22	.....	3,145.08
\$819.34	\$2,366.45	\$180.96	\$19,117.39

WASDELLS SYSTEM
Operating

For Year Ending

Interest on Capital Investment.....	\$743.60
Provision for Sinking Fund.....	219.65
	<u>\$963.25</u>

Statement showing Interest and
For the year ending

	Capital Cost	Interest
Beaverton.....	\$5,495.85	\$317.14
Brechin.....	613.25	38.02
Brock Township(Operated by Sunderl'd)	3,541.89	225.03
Woodville.....	2,748.16	163.41
Totals.....	<u>\$12,399.15</u>	<u>\$743.60</u>

Statement showing the Total Sinking Fund
and the Total of the Sinking Fund
thereon to

	Sinking Fund Requirements	
	Period Covered	Amount
Beaverton.....	4 years ending 31st October, 1921	\$277.70
Brechin.....	3 years ending 31st October, 1921	43.03
Brock Township (Operated by Sunderland).....	3 years ending 31st October, 1921	192.25
Woodville.....	2 years ending 31st October, 1921	74.70
Totals.....		<u>\$588.38</u>

MUSKOKA
Operating
For year ending

Costs of operation as provided for
under Sections 6c and 23 of the Act

Cost of operating and maintaining the Generating Plant, Transmission Lines, Stations, etc., including the proportion of Administrative Expenses chargeable to the operation of this System.....	\$11,106.14
Interest on Capital Investment.....	9,670.16
Provision for Renewal of Generating Plant, Lines, Stations, etc.....	5,313.27
Provision for Contingencies :—	
By charges against Municipalities.....	\$301.80
By appropriating the net profits on power sold to Sundry Customers at Muskoka Falls.....	30.97
	<u>332.77</u>
Provision for Sinking Fund :—	
By certain Municipalities which were charged therewith upon the expiry of their five year exemption period.....	750.60
	<u>\$27,172.94</u>

RURAL LINES**Account****31st October, 1921****Revenue—**

Interest and Sinking Fund from the Municipalities which operate the line	\$963.25
	<u>\$963.25</u>

Sinking Fund charges on each Line**31st October, 1921**

Sinking Fund	Total Interest and Sinking Fund Charges	Revenue from Municipalities
\$92.08	\$409.22	\$409.22
11.04	49.06	49.06
67.51	292.54	292.54
49.02	212.43	212.43
<u>\$219.65</u>	<u>\$963.25</u>	<u>\$963.25</u>

requirements in respect of each Line**Payments with Interest allowed****31st October, 1921**

Sinking Fund Paid	Interest at 4% per annum allowed on Sinking Fund Payments	Total Sinking Fund Payments and Accumulated Interest to 31st October, 1921
\$277.70	\$13.04	\$290.74
43.03	2.15	45.18
192.95	6.83	199.78
74.70	1.03	75.73
<u>\$588.38</u>	<u>\$23.05</u>	<u>\$611.43</u>

SYSTEM**Account****31st October, 1921****Revenue for Period**

Collected from Municipalities	\$26,420.03
Power sold to Sundry Customers at Muskoka Falls	51.00
	<u>\$26,471.03</u>
Add amounts due by certain Municipalities being the difference between sums paid and the costs of power supplied to them in the period . .	\$1,588.59
Deduct amounts collected from certain Municipalities in excess of the sums required to be paid by them for power supplied in the period	<u>886.68</u>
	701.91

Revenue	<u>27,172.94</u>
	<u>\$27,172.94</u>

MUSKOKA

**Statement Showing the Amount to be Paid by Each Municipality as the Cost—
Received by the Commission from Each Municipality on Account of such
ascertainment (by Annual Adjustment) of the Actual**

Municipality	Interim Rates per Horse Power collected by Commission during Year		Share of Capital Cost of System on which Interest and Fixed Charges are Payable	Average Horse Power Supplied in Year after Correction for Power Factor	Share of Operating	
	To Dec. 31, 1920	From Jan. 1, 1921			Operating Maintenance and Administrative Expenses	Interest
Gravenhurst	\$14.00	\$15.00	\$ 41,699.62	368.2	\$3,251.25	\$1,897.35
Huntsville	25.00	25.00	170,547.33	839.	7,854.89	7,759.88
Totals—Municipalities			\$212,246.95	1,207.2	\$11,106.14	\$9,657.23
Muskoka Falls— (Sundry customers)			284.01			12.93
Grand Totals			\$212,530.96		\$11,106.14	\$9,670.16

MUSKOKA SYSTEM**Reserve for Contingency Account, 31st October, 1921**

Total provision for Contingencies to 31st October, 1920	\$1,508.80
Add profit realized upon adjustment of Renewal rates to 31st October, 1920	8.86
Balance brought forward, 31st October, 1920	\$1,517.66
Added during the year ending 31st October, 1921—	
Amounts charged to Municipalities as part of the Cost of Power delivered to them	\$301.80
Profit on Sales of Power to Sundry Customers at Muskoka Falls	30.97
Interest at 4% per annum on Monthly Balances to the credit of the account	60.71
	\$393.48
Balance carried forward, 31st October, 1921	\$1,911.14

SYSTEM

under Section 23 of the Act—of Power supplied to it by the Commission, the amount Cost, and the Amount Credited or Charged to Each Municipality upon Cost of Power supplied to it in the Year Ending 31st October, 1921

Costs and Renewals	Fixed Charges.		Total Cost of Power for Year as provided to be Paid under Section 23 of Act	Amounts Paid to the Commission by Each Municipality	Amounts remaining to be credited or charged to each Municipality upon ascertainment of the actual cost of Power by Annual Adjustment		Sinking Fund for the years mentioned hereunder charged as part of the cost of Power in the Year 1920-21
	Contingencies	Sinking Fund			Credited	Charged	
\$1,042.50	\$ 92.05	\$750.60	\$ 7,033.75	\$ 5,445.16	.....	\$1,588.59	1920-21
4,263.67	209.75	.....	20,088.19	20,974.87	886.68	.....	.....
\$5,306.17	\$301.80	\$750.60	\$27,121.94	\$26,420.03	\$886.68	\$1,588.59	
7.10	.....	.....	20.03	51.00	* 30.97	.....
\$5,313.27	\$301.80	750.60	\$27,141.97	\$26,471.03	.....	.....

* NOTE.—Transferred to Credit of Contingency Reserve.

MUSKOKA SYSTEM

Reserve for Renewals Account, 31st October, 1921

Total provision for Renewals to 31st October, 1920.....	\$28,826.30
Less reduction upon adjustment of Renewal Rates to 31st October, 1920...	8,263.37
	\$20,562.93
Deduct : Expenditures to 31st October, 1920.....	1,180.12
	\$19,382.81
Added during the year ending 31st October, 1921 :	
Amounts charged to Municipalities as part of the Cost of Power delivered to them.....	\$5,306.17
Provision against equipment in respect of Muskoka Falls.....	7.10
Interest at 4% per annum on the monthly balances to the credit of the account	775.31
	6,088.58
Balance carried forward 31st October, 1921.....	\$25,471.39

MUSKOKA SYSTEM

Statement Showing the Total Sinking Fund Requirements to be met by each Municipality.—Sinking Fund Requirements the Payment of which has been deferred by the Commission under Section 23 of the Act.—Sinking Fund Payments made by Certain Municipalities which have been Operating more than Five Years and the Total of such Sinking Fund Payments, to 31st October, 1921

Municipality	Total Sinking Fund Requirements chargeable to the Municipality under the Act		Sinking Fund Requirements the Payment of which has been Deferred		Sinking Fund Requirements paid (or charged) as part of the Cost of Power		Total Sinking Fund Payments to the credit of the Municipality on 31st October, 1921
	(a) For Period of	(b) Amount	(a) For Period of	(b) Amount	(a) For Period of	(b) Amount	
Gravenhurst.....	1 yr. end. Oct. 31, 1921	\$ 750.60			1 yr. end. Oct. 31, 1921	\$750.60	\$750.60
Huntsville.....	1 " " "	3,069.84	1 yr. end. Oct. 31, 1921	\$3,069.84			
	Totals.....	\$3,820.44		\$3,069.84		\$750.60	\$750.60

Statement showing the Net Charge to each municipality in respect of Power supplied to it to 31st October, 1920—
Adjustments made and Interest added during the Year—also the Net Amount Credited or Charged
to each Municipality in respect of Power supplied in the Year ending 31st October, 1921—
and the Accumulated Amount standing as a Credit or Charge to each Municipality
at 31st October, 1921

Municipality	Date Commenced Operating	Net Charge at 31st October, 1920	Cash Payments and adjustment of Renewals Reserve account during the year		Interest at 4% per annum added during the year		Net amount credited or charged in respect of power supplied in the year ending 31st October 1921		Accumulated amount standing as a credit or charge on 31st October, 1921
					Credited	Charged	Credited	Charged	
Gravenhurst.....	Nov., 1915	\$6,175.18		\$1,671.83		\$180.13		\$1,588.59	\$6,272.07
Huntsville.....	Sept., 1916	4,668.33		4,995.43	\$76.57		\$886.68		\$1,290.35
Totals.....		\$10,843.51		\$6,667.26	\$76.57	\$180.13	\$886.68	\$1,588.59	\$6,272.07

ST. LAWRENCE SYSTEM

Operating Account, Year Ending October 31st, 1921

COSTS OF OPERATION AS PROVIDED FOR UNDER SECTIONS 6C AND 23 OF THE ACT		REVENUE FOR PERIOD
Power Purchased	\$ 46,441.25	
Costs of operating and maintaining the Generating Plant, Transmission Lines, Stations, etc., including the proportion of Administrative Expenses, chargeable to the operation of this System		Collected from Municipalities..... \$ 98,339.84
Interest on Capital Investment	22,818.50	Power sold to Private Companies..... 32,966.30
Provision for Renewal of Lines, Stations, etc..	31,760.35	
Provision for Contingencies :	20,940.89	
By charges against Municipalities.....	\$ 418.59	
By charges against contracts with Private Companies	241.31	Add : Amounts due by certain Municipalities, being the difference between sums paid and the Costs of Power supplied to them in the year..... \$ 7,993.97
Provision for Sinking Fund :	659.90	
By certain Municipalities which were charged herewith upon the expiry of their five-year exemption period		
By charges against contracts with Private Companies which purchased power		Deduct : Amounts collected from certain Municipalities in excess of the sums required to be paid by them for power supplied in the year.. 6,306.98
	10,372.24	
	<u>\$132,993.13</u>	REVENUE..... 1,686.99
		132,993.13
		<u>\$132,993.13</u>

ST. LAWRENCE

Statement Showing the Amount to be Paid by Each Municipality as the Cost—Under Received by the Commission from Each Municipality on Account of Such Cost, upon ascertainment (by Annual Adjustment) of the Actual Cost of

Municipality	Interim Rates per Horse Power collected by Commission during Year		Share of Capital Cost of System on which Interest and Fixed Charges are Payable	Average Horse Power Supplied in Year after Correction for Power Factor	Cost of Power to Commission	Share of Operating	
	To Dec. 31, 1920	From Jan. 1, 1921				Operating Maintenance and Administrative Expenses	Interest
Alexandria.....	\$65.00	\$65.00	\$113,824.97	96.2	\$1,692.61	\$2,443.74	\$3,184.01
Apple Hill.....	60.00	60.00	6,329.44	5.7	100.29	342.49	158.45
Brockville.....	45.19	55.00	285,809.81	1,073.9	18,894.97	8,362.02	12,771.81
Chesterville.....	76.73	85.00	68,737.69	150.9	2,655.04	2,211.73	3,094.92
Lancaster.....	97.00	97.00	41,877.46	6.1	107.33	640.25	764.26
Martintown.....	54.00	54.00	5,487.23	3.4	59.82	259.68	87.47
Maxville.....	86.00	86.00	39,693.55	19.6	344.86	1,133.77	1,088.73
Prescott.....	44.93	55.00	53,750.28	216.1	3,802.22	1,779.47	2,398.87
Williamsburg.....	50.00	73.89	6,293.86	11.5	202.33	598.44	256.40
Winchester.....	69.84	85.00	32,908.12	90.9	1,599.36	1,202.42	1,477.66
Totals—Municipalities.....			\$654,712.41	1,674.3	\$29,458.83	\$18,974.01	\$25,282.58
Totals—Companies.....			154,814.04	965.2	16,982.42	3,844.49	6,477.77
Non-Operating Capital.....			31,537.75				
Grand Totals.....			\$841,064.20		\$46,441.25	\$22,818.50	\$31,760.35

ST. LAWRENCE SYSTEM

Reserve for Contingencies Account, 31st October, 1921

Total provision for Contingencies to 31st October, 1920.....	\$1,092.67
Add profit realized upon adjustment of Renewal Rates to 31st Oct., 1920.....	1,353.93
Balance brought forward, 31st October, 1920.....	\$2,446.60
Added during the year ending 31st October, 1921—	
Amount charged to Municipalities as part of the Cost of Power delivered to them.....	\$418.59
Provision against equipment employed in respect of contracts with Sundry Companies \$241.31 + \$1,000.00.....	1,241.31
Interest at 4% per annum on the monthly balances to the credit of the account.....	97.86
	1,757.76
	\$4,204.36
Deduct :	
Expenditures during the year ending 31st October, 1921.....	831.71
Balance carried forward, 31st October, 1921.....	\$3,372.65

SYSTEM

Section 23 of the Act—of Power Supplied to it by the Commission—The Amount and the Amount remaining to be Credited or Charged to Each Municipality Power Supplied to it in the Year Ending 31st October, 1921

Costs and Fixed Charges.			Loss from Sale of Power to Companies charged to the Municipalities in proportion to their Maintenance Costs	Total Cost of Power for Year as provided to be Paid under Section 23 of Act	Amounts Paid to the Commission by Each Municipality	Amounts remaining to be credited or charged to each Municipality upon ascertainment of the actual cost of Power by Annual Adjustment		Sinking Fund for the years mentioned hereunder charged as part of the cost of Power in the Year 1920-21
Renewals	Contingencies	Sinking Fund				Credited	Charged	
\$2,099.35 104.47	\$24.05 1.43	..... .....	\$168.52 18.83	\$9,612.28 725.96	\$6,122.27 327.50	\$.....	\$3,490.01 398.46	..........
8,420.97	268.46	\$4,970.18	656.94	54,345.35	57,154.72	2,809.37	.....	1919-20
2,040.61	37.73	1,224.36	173.10	11,437.49	12,668.95	1,231.46	.....	1920-21
503.91	1.53	.....	42.27	2,059.55	594.92	.....	1,464.63	.....
57.67	.85	.....	12.22	477.71	181.80	.....	295.91	.....
717.85	4.90	.....	80.37	3,370.48	1,591.65	.....	1,778.83	.....
1,581.67	54.03	949.01	131.30	10,696.57	11,444.33	747.76	.....	1920-21
169.05	2.88	81.49	40.56	1,351.15	785.02	.....	566.13	1919-20
974.28	22.73	584.57	89.27	5,950.29	7,468.68	1,518.39	.....	1920-21
\$16,669.83 4,271.06	418.59 241.31	7,809.61 2,562.63	\$1,413.38 1,413....	\$100,026.83 32,969.30	\$98,339.84 32,966.30	\$6,306.98	\$7,993.97	.....
\$20,940.89	\$659.90	\$10,372.24	.....	\$132,993.13	\$131,306.14	.....	.....	.....

ST. LAWRENCE SYSTEM

Reserve for Renewals Account, 31st October, 1921

Total provision for Renewals, 31st October, 1920.....	\$70,820.40
Less reduction upon adjustment of Renewal Rates to 31st October, 1920..	17,709.88
	<u>\$53,110.52</u>
Deduct expenditures to 31st October, 1920.....	1,909.73
	<u>51,200.79</u>
Balance brought forward, 31st October, 1920.....	
Added during the year ending 31st October, 1921—	
Amounts charged to Municipalities as part of the Cost of Power delivered to them.....	16,669.83
Provision against equipment employed in respect of contracts with Private Companies.....	4,271.06
Interest at 4% per annum on the monthly balances to the credit of the account.....	2,048.03
Renewal Reserve provided on second-hand equipment purchased from other Systems.....	2,962.57
	<u>25,951.49</u>
	<u>\$77,152.28</u>
Expenditures during the year ending 31st October, 1921.....	792.91
	<u>\$76,359.37</u>

ST. LAWRENCE

Statement Showing the Total Sinking Fund Requirements to be met by each Municipality the Commission under Section 23 of the Act.—Sinking Fund Payments made and the Total of such Sinking Fund Payments, including

Municipality	Total Sinking Fund Requirements Chargeable to the Municipality under the Act		Sinking Fund Requirements the Payment of which has been deferred	
	(a) For Period of	(b) Amount	(a) For Period of	(b) Amount
Alexandria.....	1 yr. ending 31 Oct. 1921	\$ 1,259.61	1 yr. ending 31 Oct. 1921	\$ 1,259.61
Apple Hill.....	1 " " " 1921	62.68	1 " " " 1921	62.68
Brockville.....	2 " " " 1921	10,022.76	1 " " " 1921	5,052.58
Chesterville.....	2 " " " 1921	2,456.36		
Lancaster.....	1 " " " 1921	302.35	1 " " " 1921	302.35
Martintown.....	1 " " " 1921	34.60	1 " " " 1921	34.60
Maxville.....	1 " " " 1921	430.71	1 " " " 1921	430.71
Prescott.....	2 " " " 1921	1,879.01		
Williamsburg.....	2 " " " 1921	182.92	1 yr. ending 31 Oct. 1921	101.43
Winchester.....	2 " " " 1921	1,145.33		
Totals—Municipalities.....		\$17,776.33		\$7,243.96
Totals—Companies (from commencement of operations).....		4,479.54		
Grand Totals.....		\$22,255.87		\$7,243.96

ST. LAWRENCE

Statement Showing the Net Charge to each Municipality in respect of Power Supplied during the Year ; also the Net Amount Credited or Charged to each October, 1921, and the Accumulated Amount Standing

Municipality	Date Commenced Operating	Net Charge at 31st October, 1920
Alexandria.....	Jan., 1921	.....
Apple Hill.....	April, 1921	.....
Brockville.....	April, 1915	\$14,321.99
Chesterville.....	Mar., 1914	8,897.63
Lancaster.....	May, 1921	.....
Martintown.....	May, 1921	.....
Maxville.....	Feb., 1921	.....
Prescott.....	Dec., 1913	4,165.32
Williamsburg.....	April, 1915	1,547.94
Winchester.....	Jan., 1914	5,337.33
Totals.....		\$34,270.21

SYSTEM

pality.—Sinking Fund Requirements, the Payment of which has been deferred by by Certain Municipalities which have been Operating more than Five Years Interest Allowed thereon to October 31, 1921.

Sinking Fund Requirements Paid (or Charged) as part of the Cost of Power		Interest at 4% per Annum allowed on Sinking Fund Requirements which have been paid	Total Sinking Fund Payments and Accumulated Interest to the credit of the Municipality on 31st October, 1921
(a) For Period of	(b) Amount		
1 year ending 31 Oct., 1920.....	\$ 4,970.18		\$ 4,970.18
2 " " " 1921.....	2,456.36	\$49.28	2,505.64
2 years ending 31 Oct., 1921.....	1,879.01	37.20	1,916.21
1 " " " 1920.....	81.49		81.49
2 " " " 1921.....	1,145.33	22.43	1,167.76
	\$10,532.37	\$108.91	\$10,641.28
(From commencement of operations)	4,479.54	76.68	4,556.22
	\$15,011.91	\$185.59	\$15,197.50

SYSTEM

to it to 31st October, 1920 ; the Cash Receipts, Adjustments made and Interest Added Municipality in respect of Power Supplied in the Year ending 31st as a Charge to each Municipality at 31st October, 1921

Cash Receipts on Account of such Charges also Adjustments of Renewals Reserve made during the Year.	Interest at 4% per annum added during Year	Net Amount Credited or Charged in respect of Power Supplied in the Year Ending 31st October, 1921		Accumulated Amount standing as a Charge on 31st October, 1921
Charged	Charged	Credited	Charged	Charge
.....	.....	.....	\$3,490.01	\$3,490.01
.....	.....	.....	398.46	398.46
\$7,724.44	\$263.90	\$2,809.37	.....	4,052.08
3,272.87	224.99	1,231.46	.....	4,618.29
.....	.....	.....	1,464.63	1,464.63
.....	.....	.....	295.91	295.91
.....	.....	.....	1,778.83	1,778.83
2,902.35	50.52	747.76	.....	565.73
1,547.94	.....	.....	566.13	566.13
2,530.46	117.19	1,518.39	.....	1,405.67
\$17,978.06	\$656.60	\$6,306.98	\$7,993.97	\$18,635.74

ST. LAWRENCE RURAL LINES

Operating Account for Year Ending 31st October, 1921

Interest on Capital Investment....	\$540.83
Provision for Renewals.....	10.12
Provision for Sinking Fund.....	195.11
	<u>\$746.06</u>

REVENUE :	
Interest, Renewals and Sinking Fund	
Collected	\$811.03
	<u>\$811.03</u>
Surplus.....	\$64.97

Statement Showing Interest, Renewals and Sinking Fund Charges for Year Ending 31st October, 1921

	Capital Cost	Interest	Renewals	Sinking Fund	Total Int. and Fixed Charges	Revenue from Muni- cipalities	Net Surplus for Year
Brockville... Lines Operated by Hydro- Electric Power Commis'on	\$10,586.50	\$529.33	.....	\$190.56	\$719.89	\$719.89	.....
Chester- ville Dist..	505.78	11.50	\$10.12	4.55	26.17	91.14	64.97
Non- Operating Capital	2,037.05	.....	.....	.....	.....	.....	.....
Totals...	\$13,129.33	\$540.83	\$10.12	\$195.11	\$746.06	\$811.03	\$64.97

RIDEAU SYSTEM

Operating Account for Year Ending 31st October, 1921

COSTS OF OPERATION AS PROVIDED FOR UNDER SECTIONS 6C AND 23 OF THE ACT	
Power Purchased.....	\$ 5,077.20
Cost of operating and maintaining Generating Plant, Transmission Lines, Stations, etc., including the proportion of Administra- tive Expenses, chargeable to the operation of this System.....	16,989.79
Interest on Capital Investment..	47,216.24
Provision for Renewal of Generat- ing Plant, Lines, Stations, etc.	19,197.81
Provision for Contingencies.....	532.90
	<u>\$89,013.94</u>

REVENUE FOR PERIOD	
Collected from Municipalities....	\$90,502.30
Deduct amounts collected from Municipalities in excess of the sums required to be paid by them for power supplied in the period.....	1,488.36
REVENUE.....	<u>89,013.94</u>
	<u>\$89,013.94</u>

RIDEAU

Statement Showing the Amount to be Paid by Each Municipality as the Cost—
Received by the Commission from Each Municipality on Account of such
upon ascertainment (by Annual Adjustment) of the Actual

Municipality	Interim Rates per Horse Power collected by Commission during Year		Share of Capital Cost of System on which Interest and Fixed Charges are Payable	Average Horse Power Supplied in Year after Correction for Power Factor	Cost of Power to Commission
	To Dec. 31, 1920	From Jan., 1, 1921			
Carleton Place.....	\$44.95	\$44.00	\$371,679.85	730.0	\$1,738.69
Lanark.....		92.50	10,019.85	3.2	7.62
Perth.....	41.80	45.00	268,832.86	524.1	1,248.28
Smith's Falls.....	38.32	40.00	394,953.44	874.4	2,082.61
Totals.....			\$1,045,486.00	2,131.7	\$5,077.20
Non-Operating Capital.....			28,518.45	.....	.....
Grand Totals.....			\$1,074,004.45	2,131.7	\$5,077.20

RIDEAU SYSTEM

Reserve for Contingencies Account, 31st October, 1921

Balance brought forward, 31st October, 1920.....	\$ 625.39
Added during the year ending 31st October, 1921—	
Amounts charged to Municipalities as part of the Cost of Power delivered to them.....	\$532.90
Interest at 4% per annum on monthly balances to the credit of the account.....	25.02
	557.92
Balance carried forward, 31st October, 1921.....	\$1,183.31

SYSTEM

Under Section 23 of the Act—of Power Supplied to it by the Commission, the Amount Cost, and the Amount Remaining to be Credited to Each Municipality
Cost of Power Supplied to it in the Year Ending 31st October, 1921

Share of Operating Costs and Fixed Charges				Total Cost of Power for Year as provided to be Paid under Section 23 of Act	Amounts Paid to the Commission by Each Municipality	Amounts remaining to be credited to each Municipality upon ascertainment of the actual cost of Power by Annual Adjustment
Operating Maintenance and Administrative Expenses	Interest	Renewals	Contingencies			
\$5,879.94	\$16,911.44	\$6,876.08	\$182.50	\$31,588.65	\$32,247.24	\$ 658.59
81.39	102.54	41.69	.80	234.04	299.08	65.04
4,356.70	12,231.89	4,973.40	131.00	22,941.27	23,252.99	311.72
6,671.76	17,970.37	7,306.64	218.60	34,249.98	34,702.99	453.01
\$16,989.79	47,216.24	\$19,197.81	\$532.90	\$89,013.94	\$90,502.30	\$1,488.36
.....
\$16,989.79	\$47,216.24	\$19,197.81	\$532.90	\$89,013.94	\$90,502.30	\$1,488.36

RIDEAU SYSTEM

Reserve for Renewals Account, 31st October, 1921

Total provision for Renewals to 31st October, 1920.....	\$21,822.21
Less reduction upon adjustment of Renewal Rates to 31st October, 1920..	3,358.10
Balance brought forward, 31st October, 1920.....	\$18,464.11
Added during the year ending 31st October, 1921—	
Amounts charged to Municipalities as part of the Cost of Power delivered to them.....	\$19,197.81
Interest at 4% per annum on the monthly balances to the credit of the account.....	738.56
Renewals Reserve provided on second-hand equipment purchased from other Systems.....	72.50
	<u>20,008.87</u>
	38,472.98
Expenditures during the year ending 31st October, 1921.....	<u>107.51</u>
Balance carried forward, 31st October, 1921.....	\$38,365.47

RIDEAU

Statement Showing the Net Credit or Charge to each Municipality in respect of Power
Adjustments made and Interest Added during the Year ; also the Net Amount
the Accumulated Amount standing as

Municipality	Date Commenced Operating	Net Credit or Charge at 31st October, 1920	
		Credit	Charge
Carleton Place.....	May, 1919	\$5,214.13	.....
Lanark.....	Sept., 1921	.....	.....
Perth.....	Feb., 1919	.....	\$5,294.31
Smith's Falls.....	Sept., 1918	.....	700.04
		<hr/>	<hr/>
Totals.....		\$5,214.13	\$5,994.35

SYSTEM

Supplied to it to 31st October, 1920, the Cash Receipts and Payments thereon, Credited to each Municipality in the Year ending 31st October, 1921, and a Credit or Charge to Each Municipality at 31st October, 1921

Cash Receipts and Payments on Account of such Credits and Charges also amount credited upon adjustment of Renewals Reserve during the Year		Interest at 4% per annum added during Year		Net Amount Credited in respect of Power Supplied in the Year Ending 31st October, 1921	Accumulated Amount standing at the Credit or Charge on 31st October, 1921	
Credited	Charged	Credited	Charged	Credited	Credit	Charge
.....	\$5,214.13	\$149.99	.....	\$ 658.59	\$ 808.58	.....
	.....	.....	.....	65.04	65.04	.....
\$1,062.99	.....	.....	\$169.25	311.72	.....	\$4,088.85
2,823.47	.....	55.62	.....	453.01	2,632.06	.....
\$3,886.46	\$5,214.13	\$205.61	\$169.25	\$1,488.36	\$3,505.68	\$4,088.85

**THUNDER BAY
OPERATING ACCOUNT FOR YEAR**

COSTS OF OPERATION	
Power Purchased.....	\$ 13,079.59
Costs of operating and maintaining the Generating Plant, Transmission Lines, and Stations ; including the proportion of Administrative Expenses chargeable to the operation of this System.....	45,420.32
Interest on Capital Investment (as detailed below).....	177,999.88
	\$236,499.79
Details of Interest—	
One-half of total interest at 5% per annum, on new Development, Lines and Stations for the broken period, 21st December, 1920, to 31st May, 1921, in which both construction and operation were carried on (the remaining half of such interest being capitalized).....	\$ 56,602.61
Interest at 5% per annum on the amount invested in the new Development, Lines and Stations (excepting the permanent dam which was under construction and not operating) for the period 1st June, 1921, to 31st October, 1921.....	116,007.67
Interest at 4.55% per annum on capital cost of old Station Line for year ending 31st October, 1921.....	5,389.60
	\$177,999.88

THUNDER BAY

Statement Showing the Costs of Power Purchased, Operation, Administration and for Power Delivered at the Interim Rate of \$25.00 per Horse Power, and from Contract in the Year Ending 31st October, 1921 ; also the Balance of the City of Port Arthur and Other Power

Municipality or Company	Rates per charged during year	† Capital Cost of System as at 31st Oct., 1921	Average Horsepower supplied in year	Cost of Power Purchased
Port Arthur.....	\$25.00	\$6,466,158.12	7,030.2	\$13,079.59
*Nipigon Fibre & Paper Co., Ltd.	24.00		3,503.1	

* Operating May 1st to October 31st, 1921.

† Capital Cost as at 31st October, 1921 :

New Development, Lines and Stations.....	\$6,347,705.45
Old Lines and Station.....	118,452.67
	\$6,466,158.12

SYSTEM

ENDING 31st OCTOBER, 1921

REVENUE FOR PERIOD	
Collected from City of Port Arthur, at rate of \$25.00 per Horse Power.....	\$175,753.39
Receivable from Nipigon Fibre and Paper Company, Limited, for power sold under contract.....	42,037.57
Total Revenue.....	\$217,790.96
Portion of Interest deferred and collectable out of future revenue from the City of Port Arthur and other Power Customers on the System.....	18,708.83
	\$236,499.79

SYSTEM

Interest (as detailed below); and the Revenue received from the City of Port Arthur the Nipigon Fibre and Paper Company, Limited, for Power Sold under Interest Account remaining to be Collected out of Future Revenue from Customers on the System, as at 31st October, 1921

Operating, Maintenance and Administrative Expenses	Total Cost of Power Purchased, Operation and Administration	Revenue Received	Excess of Revenue over cost of power, operation and administration	Interest (as detailed below)	Balance of Interest deferred and collectable out of future Revenue
\$45,420.32	\$58,499.91	\$175,753.39 42,037.57 \$217,790.96	\$159,291.05	\$177,999.88	\$18,708.83

Details of Interest :

One-half of total interest, at 5% per annum, on new Development, Lines, and Stations for the broken period, 21st December, 1920, to 31st May, 1921, in which both construction and operation were carried on (the remaining half of such interest being capitalized).....	56,602.61
Interest at 5% per annum on the amount invested in the new Development, Lines and Stations (excepting the permanent dam which was under construction and not operating) for the period 1st June, 1921, to 31st October, 1921.....	116,007.67
Interest at 4.55% per annum on capital cost of old Station and Line for year ending 31st October, 1921.....	5,389.60
	\$177,999.88

THUNDER BAY SYSTEM

RESERVE FOR CONTINGENCIES ACCOUNT, 31st OCTOBER, 1921

Balance brought forward, 31st October, 1920.....	\$4,254.48
Added during the year ending 31st October, 1921—	
Total.....	\$4,424.66
Interest at 4% per annum on the balance to the credit of the account.....	170.18

THUNDER BAY

Statement Showing the Total Sinking Fund Requirements of the City of Port
Total of such Sinking Fund Payments with

Municipality	Sinking Fund Requirements	
	Period Covered	Amount
Port Arthur.....	10 years ending 31st October, 1920	\$17,437.40

NOTE.—No Sinking Fund charged against operations in the year ending 31st October, 1921,
 1. The Commission are arranging for the sale to Port Arthur of the original line
 2. The new Nipigon Development was under construction and incomplete up to

THUNDER BAY

Statement Showing the Net Credit to the City of Port Arthur in Respect of Power
of such Credits Applied by the Commission in Part Payment of Power Bills

Municipality	Date Commenced Operating	Net Credit at 31st October, 1920
Port Arthur.....	Dec., 1910	\$28,578.18

THUNDER BAY SYSTEM

RESERVE FOR RENEWALS ACCOUNT, 31st OCTOBER, 1921

Total provision for renewal of (original) station and lines to 31st October, 1920.....	\$39,723.42
Deduct : Expenditures to 31st October, 1920.....	9.75
	<hr/>
Added during year ending 31st October, 1921 :	\$39,713.67
Interest at 4% per annum on the balance to the credit of the account.....	1,588.55
Total.....	<hr/>
	\$41,302.22

NOTE.—No provision for renewals charged against operations in the year ending 31st October, 1921, for the following reasons :

1. Use of the original station and lines by the Commission discontinued 20th December, 1920, and it is proposed to sell this plant to Port Arthur at the book values of 31st October, 1920.
2. New Nipigon Development under construction and incomplete up to 31st October, 1921.

SYSTEM

Arthur to 31st October, 1920 ; Sinking Fund Payments made by it, and the Interest allowed thereon to 31st October, 1921

Sinking Fund Paid		Interest at 4% per annum allowed on Sinking Fund Payments	Total Sinking Fund Payment and Accumulated Interest to 31st October, 1921
Period Covered	Amount		
Full period	\$17,437.40	\$3,827.46	\$21,264.86

for the following reasons :
and station at the book values of 31st October, 1920.
31st October, 1921.

SYSTEM

Supplied to it to 31st October, 1920 ; Interest Added during the Year, and the Total Owing by Port Arthur in the Year Ending 31st October, 1921

Interest at 4% per annum credited during the year	Total	Applied in part payment of power bills owing
\$1,143.13	\$29,721.31	\$29,721.31

CENTRAL ONTARIO AND NIPISSING SYSTEMS

The following Balance Sheet and Operating Account relate to the Systems known as "Central Ontario" and "Nipissing" which together serve electrical energy to 54 municipalities and companies. The Central Ontario system extends from the municipality of Whitby on the west to and including the city of Kingston on the east and as far north as Lindsay. The Nipissing system supplies the town of North Bay and vicinity. These systems were purchased by the Provincial Government, as at the 1st of March, 1916, from the Electric Power Company, Limited, which owned or controlled the capital stock of 22 subsidiary companies, the purchase price being the sum of \$8,350,000, payable in ten years, secured by a Government Bond issue bearing interest at four per cent per annum.

Since the acquisition of these properties, and their transfer to the Commission to operate in trust for the Government, it has been found necessary to enlarge, extend and improve the Systems to meet the increasing demands for electric service.

The operation of these two systems entails the generation, transformation and transmission of electrical energy to 34 municipalities, and 20 companies, and in addition thereto the operation of four gas plants—at Peterborough, Oshawa, Cobourg and Napanee*—the Cobourg Waterworks, the Peterborough Street Railway, the Campbellford Pulp Mill and certain pulpwood Limits connected therewith.

With the exception of thirteen municipalities, namely, Bloomfield, Havelock, Kingston, Lakefield, Madoc, Marmora, Norwood, Omemee, Peterborough, Picton, Stirling, Wellington and Whitby, eleven of which were connected to the System subsequent to the date of purchase, the whole property, local and otherwise, is operated and maintained by the Commission. Although the ownership of the whole plant is vested in the province (except the thirteen local Systems of the Municipalities mentioned) precisely the same methods, with respect to the control of rates, operation, maintenance, and provision for renewal of plant and equipment, are applied, as appertain to other Systems controlled and operated by the Commission.

An Annual Adjustment of the System's Capital Cost and Expenses is made and those municipalities operating their own Utilities and which have contracts for power to be supplied at cost, receive an additional charge or credit—as the case may be—on account of Power Cost as ascertained by this adjustment, just as is done in the case of the Municipalities comprising the Niagara System and other Systems.

*The Napanee gas plant was closed down permanently in September, 1921.

CENTRAL ONTARIO AND NIPISSING SYSTEMS ACCOUNTS

Statement of Assets and Liabilities, 31st October, 1921.

Operating Account for Year Ending, 31st October, 1921.

Statement Showing Amount to be Paid by Municipalities
as Cost of Power.

Reserve for Contingencies Account, 31st October, 1921.

Reserve for Renewals Account, 31st October, 1921.

Statement Showing Net Credit or Charge to Each
Municipality in Respect of Power Supplied.

Statement Respecting Rural Lines.

CENTRAL ONTARIO
Operated
THE HYDRO-ELECTRIC POWER
STATEMENT OF ASSETS AND

ASSETS.

Central Ontario :			
Power Developments and Hydraulic Rights.....	\$5,065,976.64		
Transformer Stations.....	1,118,381.09		
Transmission Lines.....	1,726,421.05		
			\$7,910,778.78
Local Utilities—Electric, Gas, Water and Street Railway...			2,369,495.58
Nipissing :			
Power Development and Steam Plant.....	419,734.42		
Transformer Stations.....	35,492.22		
Transmission Lines.....	43,322.00		
			498,548.64
Local Utilities—Electric.....			184,236.23
Rural Lines.....			31,321.96
Pulpmill and Pulpwood Areas.....			509,114.50
			\$11,503,495.69
Investments :			
Debentures of the Town of Trenton, re sale of Waterworks.	20,003.56		
Debentures of the Town of Napanee, re sale of Property and Water Privileges.....	12,499.15		
			32,502.71
Cash in Bank.....			4,780.95
Inventories :			
Tools and Equipment.....	56,108.25		
Material and Supplies.....	445,676.00		
			501,784.25
Accounts Receivable :			
Power and Pulpmill Accounts.....	81,435.28		
Consumers' Supply—Sales Accounts.....	33,476.74		
Consumers' Light and Power Accounts.....	32,712.79		
			147,624.81
Less : Reserve for Doubtful Accounts.....			7,251.70
			\$140,373.11
Balances due by certain Municipalities in respect of the costs of Power supplied to them as provided to be paid under their contracts with the Commission.....		48,066.46	
Due by Municipalities in respect of the operation of Rural Lines..		10,899.09	
			199,338.66
Expenses Prepaid.....			5,026.78
Deferred Maintenance, re insulation of Transmission Lines, chargeable to future Operations.....			42,838.87
Operating Deficit.....			168,930.15
			\$12,458,698.06

SYSTEM

by

COMMISSION OF ONTARIO
LIABILITIES, 31st OCTOBER, 1921

LIABILITIES

Provincial Treasurer :		
Purchase Price of System.....	\$8,350,000.00	
Debentures issued in connection with purchase of Bruton Township Pulpwood area.....	225,000.00	
Cash Advances.....	2,698,712.78	
		\$11,273,712.78
Due to Hydro-Electric Power Commission of Ontario.....		18,638.43
Accounts Payable and Accrued Charges.....	64,447.85	
Consumers' Deposits.....	10,734.26	
Unearned Water Rates.....	2,940.00	
		78,122.11
Balances due to certain Municipalities in respect of amounts paid by them in excess of the cost of Power supplied to them as provided to be paid under their contracts with the Commission.....		7,180.07
Reserve for Renewals.....		1,044,426.52
Reserve for Contingencies.....		7,952.61
Reserves for Sinking Fund :		
For retirement of Bonds issued in purchase of Bruton Township Pulpwood Areas.....	24,955.66	
For repayment of cost of Mill at Bancroft.....	1,862.23	
In respect of Rural Lines.....	1,847.65	
		28,665.54

\$12,458,698.06

**CENTRAL ONTARIO
OPERATING ACCOUNT FOR**

COST OF OPERATIONS

Power Department :	
Power Purchased.....	\$14,428.46
Cost of Operating and Maintaining Generating Plants, Transmission Lines, Stations, etc., including rentals of water powers, and the proportion of administrative expenses chargeable to the operation of the Power Department.	364,182.95
Interest on Capital Investment.....	332,795.23
Provision for Renewal of Generating Plants, Lines, Stations, etc.....	128,933.13
Provision for Contingencies.....	27,539.11
	\$867,878.88
Utilities :	
Cost of Operating and Maintaining Electric Light Distribution Systems, Gas Systems, Water Systems and the Peterboro Street Railway, including all materials and supplies purchased and the proportion of administrative expenses chargeable to the operation of these Utilities..	456,597.65
Interest on Capital Investment.....	112,079.98
Provision for Renewal of Plants and Equipment.....	72,920.13
	641,597.76
Total Cost of Operation of Power Department and Utilities.....	1,509,476.64
Costs of operating the "Oshawa" Rural Lines, including power supplied, operating expenses, interest, renewals and sinking fund.....	10,741.69
Net Loss for year on operation of Pulp Mill, and Bruton Township Pulpwood Areas.....	17,693.84
	\$1,537,912.17

SURPLUS

Debit Balance brought forward, 31st October, 1920.....	\$ 167,530.90
Further provision for water rentals accrued for the period 1st March, 1916, to 31st October, 1920.....	11,722.67
Balances due to certain Municipalities in respect of amounts paid by them in the two years ending 31st October, 1920, in excess of the cost of power supplied to them as provided to be paid under their contracts with the Commission....	2,312.21
Net Operating Deficit for year ending 31st October, 1920.....	42,674.03
	\$224,239.81

SYSTEM

YEAR ENDING 31st OCTOBER, 1921

REVENUE

Power sold to Private Companies and certain Municipalities. . . .	\$255,250.56	
Power supplied to certain other Municipalities at cost in accordance with their contracts with the Commission.	139,232.01	
Power supplied at cost to the Peterboro Street Railway and the Campbellford Pulp Mill.	45,052.50	
		\$ 439,535.07
Light and Power sold to Consumers on the twenty Electric Light Distribution Systems.		674,019.43
Gas sold to Consumers on four Gas Systems and sales of by-products.		204,849.62
Water sold to Consumers on one Water System.		32,481.92
Revenue from Peterboro Street Railway.		100,816.37
		1,451,702.41
Total Revenue from Power Department and Utilities.		
Revenue from the operation of the "Oshawa" Rural Lines, including the balances receivable from the Municipalities under their contracts with the Commission.		10,741.69
Net Profit on sales of equipment and supplies.		32,794.04
		1,495,238.14
Total Revenue.		
Net Operating Deficit for year.		42,674.03

\$1,537,912.17

ACCOUNT

Balances due by certain Municipalities in respect of the costs of power supplied to them in the two years ending 31st October, 1920, as provided to be paid under their contracts with the Commission.	\$ 46,774.00
Balance due by certain Municipalities in respect of the operation of the "Oshawa" Rural Lines to 31st October, 1920.	8,535.66
Balance—as shown on statement of Assets and Liabilities.	168,930.15
	\$224,239.81

CENTRAL ONTARIO

Statement Showing the Amount to be Paid by Each of the following Municipalities
Amount Received by the Commission from Each Municipality on Account
upon Ascertaining, by Annual Adjustment, the Actual Cost of

Municipality	Interim Rates per Horsepower collected by Commission during year	Share of Capital Cost of System on which Interest and Fixed Charges are Payable	Average Horsepower supplied in year after Correction Power Factor	Share of
				Operating Maintenance and Administra- tive Expenses
Bloomfield.....	\$66.16	\$ 24,879.95	33.4	\$ 764.14
Havelock.....	68.00	25,088.58	16.4	986.89
Lakefield.....	36.36	46,144.58	110.8	1,883.82
Marmora.....	53.70	8,040.00	11.4	470.06
Norwood.....	42.00	6,587.91	9.0	563.46
Peterboro.....	22.50	924,866.02	4,613.7	40,810.98
Picton.....	64.14	148,242.18	269.6	4,054.64
Wellington.....	52.76	34,810.52	69.3	1,081.52
*Whitby.....	29.00	94,713.00	397.6	4,875.30
		\$1,313,372.77	5,531.2	\$55,490.81

* Contract with Municipality of Whitby not yet signed.

CENTRAL ONTARIO SYSTEM

RESERVE FOR CONTINGENCIES ACCOUNT, 31st OCTOBER, 1921

Balance brought forward, 31st October, 1920.....	\$10,763.90
Added during the year ending 31st October, 1921—	
By charges against operations.....	\$27,539.11
Interest at 4% per annum on the monthly balances to the credit of the account.....	414.09
	27,953.20
	\$38,717.10
DEDUCT :	
Expenditures to cover contingencies met with during the year ending 31st October, 1921.....	30,764.49
Balance carried forward, 31st October, 1921.....	\$7,952.61

SYSTEM

as the Cost of Power Supplied to it under its Contract with the Commission, the of such Cost, and the Amount Credited or Charged to Each Municipality Power Supplied to it in the Year ending 31st October, 1921

Operating Cost and Fixed Charges			Total Cost of Power for year as provided to be paid under Contracts	Amounts paid to the Commission by each Municipality	Amount Credited or Charged to each Municipality upon ascertaining the Cost of Power by Annual Adjustment	
Interest	Renewals	Contingencies			Credited	Charged
\$ 1,078.34	\$553.24	\$ 30.34	2,426.06	\$ 2,209.71	\$	\$ 216.35
1,177.42	451.13	14.90	2,630.34	2,861.66	231.32	.....
1,992.58	930.91	100.65	4,907.96	4,028.38	.....	879.58
379.18	146.50	10.35	1,006.09	1,849.51	843.42	.....
291.27	110.15	8.17	973.05	1,105.82	132.77	.....
39,939.54	14,198.69	4,191.04	99,140.25	100,065.38	925.13	.....
6,425.75	3,212.74	244.90	13,938.03	17,517.69	3,579.66	.....
1,508.73	741.88	62.95	3,395.08	3,657.56	262.48	.....
4,062.57	1,516.10	361.18	10,815.15	11,290.12	474.97	.....
\$56,855.38	\$21,861.34	\$5,024.48	\$139,232.01	\$144,585.83	\$6,449.75	\$ 1,095.93

CENTRAL ONTARIO SYSTEM

RESERVE FOR RENEWALS ACCOUNT, 31st OCTOBER, 1921

Total provisions for Renewals to 31st October, 1920.....	\$832,672.12
DEDUCT :	
Expenditures to 31st October, 1920.....	20,162.37
Balance brought forward 31st October, 1920.....	\$812,509.75
Added during the year ending 31st October, 1921—	
By Charges against Operations.....	\$208,328.47
Interest at 4% per annum on the monthly balances to the credit of the account.....	32,441.76
	240,770.23
	\$1,053,279.98
DEDUCT :	
Expenditures during the year ending 31st October, 1921.....	8,853.46
Balance carried forward, 31st October, 1921.....	\$1,044,426.52

CENTRAL ONTARIO

Statement Showing the Net Credit or Charge to Each Municipality in respect of
and 1921, Interest Added to 31st October, 1921, and the Accumulated

Municipality	Date Commenced Operating	Amount Credited or Charged in respect of Power supplied in the year ending 31st October, 1919		Amount Credited or Charged in respect of Power supplied in the year ending 31st October, 1920	
		Credited	Charged	Credited	Charged
Bloomfield	April, 1919	.....	\$ 548.17	.....	\$ 307.73
Havelock	Feb., 1921	.....	.....	.....	.....
Lakefield	Aug., 1920	.....	.....	.....	212.03
Marmora	Jan., 1921	.....	.....	.....	.....
Norwood	Feb., 1921	.....	.....	.....	11.36*
Peterboro	Mar., 1916	.....	20,071.16	.....	19,108.23
Picton	April, 1919	.....	1,890.94	4,278.78	.....
Wellington	April, 1919	.....	619.68	34.13	.....
† Whitby	Mar., 1916	.....	3,873.98	.....	1,051.24
OSHAWA RURAL DISTRICT					
Whitby Township					
East Whitby Twp.	April, 1918	.....	\$5,229.90	.....	\$3,116.55
Pickering					

* Preliminary Engineering Services only.

† Contract with Municipality of Whitby not yet signed.

RURAL

Municipality	Capital Cost	Cost of Power	Operating Maintenance and Adminis- tration Expenses
OSHAWA RURAL DISTRICT—			
East Whitby Township	\$49,501.81	\$2,548.00	\$2,252.69
Whitby "			
Pickering "			

SYSTEM

Power Supplied to it in Each of the Three Years Ending 31st October, 1919, 192
Amount Standing as a Credit or Charge to Each Municipality at 31st October, 1921

Amount Credited or charged in respect of power supplied in the year ending 31st October, 1921		Interest on such Credits and Charges to 31st October, 1921		Accumulated amount standing as a Credit or Charge on 31st October, 1921	
Credited	Charged	Credited	Charged	Credited	Charged
.....	\$216.35	.....	\$ 57.04	.....	\$1,129.29
\$231.32	.....	.....	.....	231.32	.....
843.42	879.58	.....	8.48	843.42	1,100.09
132.77	.....	.....	.45	120.96	.....
925.13	.....	.....	2,402.13	.....	40,656.39
3,579.66	.....	\$16.87	.....	5,984.37	.....
262.48	.....	.....	49.20	.....	372.27
474.97	.....	.....	358.17	.....	4,808.42
				\$7,180.07	\$48,066.46
.....	\$2,022.01	.....	\$530.63	.....	\$10,899.09

LINES

Fixed Charges			Instalments paid on Bonds issued by Townships	Total Cost of Power Operating Expenses and Fixed Charges	Revenue from Consumers	Amount remaining to be charged to the Muni- cipalities
Interest	Renewals	Sinking Fund				
\$2,872.31	\$1,978.15	\$562.93	\$527.61	\$10,741.69	\$8,719.68	\$2,022.01

THOROLD
STATEMENT OF ASSETS AND

ASSETS

Transmission and Distribution System, Contracts, Franchises and Goodwill. . . .	\$101,331.09
Due by Consumers in respect of Power Accounts.	8,907.46
Due by Hydro-Electric Power Commission of Ontario.	55,979.20
	<hr/>
	\$166,217.75

THOROLD
OPERATING ACCOUNT FOR

COST OF OPERATION

Power Purchased.	\$31,720.21
Cost of Operating and Maintaining Transmission Lines and Stations, including the proportion of Administrative Expenses chargeable to the operation of this System.	961.34
Interest.	3,517.40
Provision for Renewal of Lines and Stations.	952.12
Provision for Sinking Fund.	1,932.23
	<hr/>
	\$39,083.30
Operating Profit for year.	43,966.85
	<hr/>
	\$83,050.15

Surplus

Appropriated for the purpose of providing additional Sinking Fund Reserves against the Commission's investment in the intangible assets of the System consisting of Contracts, Franchises and Goodwill.	\$ 57,568.88
	<hr/>
	\$57,568.88

SYSTEM

LIABILITIES, 31st OCTOBER, 1921

LIABILITIES.

Hydro-Electric Power Commission :	
Bonds issued to cover purchase price.....	\$100,000.00
Sinking Fund Reserves—	
In respect of the investment in Transmission and Distribution System.....	847.83
In respect of the investment in intangible assets consisting of Contracts, Franchises, and Goodwill.....	62,550.13
Reserve for Renewals.....	2,819.79
	<hr/>
	\$166,217.75

SYSTEM

YEAR ENDING 31st OCTOBER, 1921

REVENUE FOR PERIOD

Power supplied to Municipality of Thorold at the interim rate of \$22.25 per Horsepower (plus standby charge for waterworks) pending [the ascertain- ment of actual cost of delivering power from the Generating Plant of the Ontario Power Company.....	\$6,982.72
Power sold to Private Companies.....	72,292.66
Commissions (or Royalties) received from the Ontario Power Company of Niagara Falls on power sold by it to power customers in Thorold District.....	3,774.83
	<hr/>
	\$83,040.15

Account

Surplus brought forward 31st October, 1920.....	\$13,602.03
Operating Profit for year.....	43,966.85
	<hr/>
	\$57,568.88

ONTARIO POWER COMPANY

The Ontario Power Company of Niagara Falls including the Ontario Transmission Company, Limited, were purchased by the Commission under the authority of the Legislature (7 Geo. V., cap. 20), and with the express approval of the Hydro-Electric municipalities of the Niagara zone. The plant has been operated by the Commission since August 1st, 1917. The statements submitted herewith show the Balance Sheet as of October 31st, 1921, the Operating Report for the year ending on that date, and a digest of the Appropriation Account showing the distribution of the surplus earnings, and the net surplus transferred to the Balance Sheet.

The Operating Statement for the year ending October 31st, 1921, shows a surplus of \$362,456.46, after providing for all costs of operation, exchange, discount on bonds, bond and other interest charges, and an adequate yearly provision for renewal of the plant. This sum is augmented by the credit balance brought forward from 1920, the surplus arising from bond redemption during the year, amounting to \$65,429.46, and by a reduction of the claim in respect to power supplied by the Toronto Power Company, amounting to \$193,564.18. Thus there is a surplus balance of \$724,770.18, which has been appropriated to meet bond interest, exchange and the sinking fund requirements in respect to the Bonds issued by the Commission, leaving a net surplus of \$59,197.03.

The first contract for energy, signed by the Hydro-Electric Power Commission of Ontario, was made in 1908 with the Ontario Power Company, then a private corporation operating under a Federal charter. The agreement was for the purchase of an ultimate maximum of 100,000 horse-power, at a rate ranging from \$9.40 to \$9.00 per horse-power per annum.

Within five years the full amount of energy contracted for was being taken, and more was urgently required to serve the needs of the associated municipalities of the Niagara System.

The Ontario Power Company was the only one of the three generating corporations which was not using its full allotment of water. There was talk of expropriating one of the plants as a war measure, but while that proposal was still being discussed, the Hydro-Electric Power Commission obtained by negotiation an option on the Ontario Power Company's property as a going concern. Authority to acquire the shares of a private electrical corporation was granted to the Commission by the Legislature, and the municipalities of the Niagara System gave their approval to the proposed purchase.

The agreement provided for the purchase by the Hydro-Electric Power Commission of the stock of the Ontario Power Company and its auxiliary, the Ontario Transmission Company, Ltd., for the sum of \$8,000,000 in forty-year,

four per cent Bonds of the Commission, guaranteed by the Province, and the assumption of the bonded indebtedness of the Corporation.

The purchase was made on August 1st, 1917. As soon as the property came into the hands of the Commission plans were made to increase its normal generating capacity by putting in a new conduit, and adding two generating units. The cost of this conduit, a wood-stave pipe line, and of the equipment which it was designed to serve, was \$3,515,094.93.

The Operating Report shows a revenue for the year of \$3,032,405.27, a little more than one-half of which was collected from the municipalities of the Niagara System for power supplied to them; that is to say, the private contracts of the plant provide a sufficient income to meet about 43 per cent of the carrying charges—if the prices for power sold were equalized to municipal and private customers.

After providing for interest charges of \$1,065,199.28, operating expenses of \$183,605.48, taxes, water rentals and other items of current outlay, the revenue permitted the setting aside of \$385,814.69 for the renewal of the plant, the provision of \$164,705.56 for maintenance charges and of \$569,291.67 for the purchase of additional power required. There was a surplus balance of \$362,456.46 carried into Appropriation Account, as the statement shows.

ONTARIO POWER
STATEMENT OF ASSETS AND

Assets

Plant, Real Estate, Transmission Lines, Distributing Stations and Rights, Franchises and Goodwill	\$25,132,736.47	
Third Pipe Line to Power Plant, including additional Generating Equipment	3,515,094.93	\$28,647,831.40
Discount on Bonds capitalized, less amounts written off \$711,445.91	\$ 979,940.00	
American Exchange on remittances to retire 1921 Bonds less amounts written off \$6,329.09	351,828.61	1,331,768.61
Construction Equipment	\$ 43,223.63	
Maintenance Tools and Equipment	36,107.11	
Furniture and Fixtures	10,344.54	
Instruments	2,000.00	
Horses, Wagons and Sundry Equipment	1,251.54	92,926.82
Materials	\$ 59,124.77	
Accounts Receivable	282,751.02	
Cash in Bank—Current Account	46,068.48	
For payment of Outstanding 1921 Bonds	10,000.00	
For payment of Outstanding Interest Coupons	51,370.00	
Sinking Fund on Deposit with Trustees	457.63	449,771.90
J. J. Albright—Claims against		286,200.26
Deposit with Supreme Court of Ontario in connection with claims of The Toronto Power Company		166,262.88
Hydro-Electric Power Commission of Ontario:—		
Moneys held for purpose of sinking funds	\$ 163,271.71	
Current Account	39,748.07	203,019.78
Insurance Prepaid		3,358.62

\$31,181,140.27

COMPANY

LIABILITIES, 31ST OCTOBER, 1921.

Liabilities

Capital Stock:

Ontario Power Company of Niagara Falls, 100,000 shares of par value of \$100 each	\$10,000,000.00	
Ontario Transmission Company Limited, 10,000 shares of par value of \$100 each	1,000,000.00	\$11,000,000.00

Bonds and Debentures:

Ontario Power Company of Niagara Falls, First Mortgage 5% Gold Bonds, due 1st February, 1943, issued and outstanding	\$ 9,218,000.00	
(Pledged to the Bank of Montreal to secure advances to the Hydro-Electric Power Commission of Ontario \$1,400,000.)		
Second Mortgage 6% Debentures due 1st July, 1921, and not yet presented for payment	10,000.00	
Ontario Transmission Company, Limited, First Mortgage 5% Gold Bonds, due 1st May, 1945	1,630,000.00	
Interest coupons due and not yet presented for payment	10,620.00	
Interest accrued to 31st October, 1921	156,225.00	11,024,845.00

Hydro-Electric Power Commission of Ontario:

Re Construction of Third Pipe Line	\$ 3,515,094.93	
Re 6% 1941 Bonds issued by the Commission for the purpose of retiring the 1921 issue of the Power Company	\$3,200,000.00	
Accrued Interest thereon	67,856.16	3,267,856.16
Accrued Interest on \$8,000,000 Bonds issued by the Commission to cover the purchase price of the capital stock of the Power Company	80,000.00	6,862,951.09

Accounts Payable and Accrued Charges		132,719.40
Reserve set aside to cover claims made by the Toronto Power Company and the Queen Victoria Niagara Falls Park Commission, also for contingencies		418,233.63

Reserves for Sinking Funds on:—

Reserves for Sinking Funds on:—

(a) \$8,000,000 Bonds issued by the Commission to cover the purchase price of the capital stock of the Power Company	\$ 100,000.00	
(b) Cash advances re construction of Third Pipe Line	63,271.71	163,271.71

Provision to cover accrued portion of Sinking Funds to 31st October, 1921, on—

(a) Ontario Transmission Company 5% Bonds	\$ 10,005.46	
(b) 6% 1941 Bonds issued by the Commission for the purpose of retiring the 1921 issue of the Power Company	11,309.50	21,315.05

Reserve for Renewal of Plant, Equipment and Transmission Lines		1,498,607.36
Surplus		59,197.03

\$31,181,140.27

Contingent Liability

in respect of claim of American Cyanamid Company for damages—
disputed by Ontario Power Company.

ONTARIO POWER
OPERATING ACCOUNT FOR YEAR

Power Purchased	\$569,291.67	
Water Power Rentals	126,307.27	
Taxes	109,148.07	
Maintenance Costs	164,705.56	
Operating Expenses	183,605.48	
Insurance Premiums	9,752.54	
Administration Expenses	44,932.12	
Depreciation on Furniture, Instruments, Horses and Wagons, and Construction Plant	11,192.13	\$1,218,934.84
Provisions for Renewal of Plant and Equipment		385,814.69
Bond Interest—		
On issues of the Companies	\$657,420.06	
Exchange thereon	90,345.06	
On 6% 1941 issue of the Commission	65,752.16	813,517.28
Proportion of Discount on Bonds:		
(a) On issues of the Companies	\$ 45,869.95	
(b) On 6% 1941 issue of the Commission	2,765.19	48,635.14
Proportion of American Exchange on remittance to retire 1921 bonds	6,329.09	
Interest on Cash Advances re Third Pipe Line	196,717.77	1,065,199.28
Operating Surplus carried to Appropriation Account		362,456.46
		<u>\$3,032,405.27</u>

APPROPRIATION

Provision for additional water rentals payable to the Queen Victoria Niagara Falls Park Commission for the period 1st August, 1917, to 31st October, 1920	\$	51,404.05
Provision for Sinking Funds:—		
On \$8,000,000 Bonds issued by the Commission to cover the purchase of the capital stock of the Power Com- pany	\$100,000.00	
On 6% 1941 Bonds to the amount of \$3,200,000 issued by the Commission for the purpose of retiring the 1921 bonds of the Power Company	11,309.59	
On Cash Advances re construction of Third Pipe Line ..	63,271.71	174,581.30
Provision for interest on \$8,000,000 bond issue of the Commission:—		
For the year ending 31st July, 1921	\$320,000.00	
American Exchange thereon	39,587.80	
Accrued for three months ending 31st October, 1921	80,000.00	439,587.80
Surplus carried forward to Balance Sheet		59,197.03
		<u>\$724,770.18</u>

COMPANY

ENDING 31ST OCTOBER, 1921.

Power Sales—		
To Sundry Customers	\$1,295,449.73	
To Hydro-Electric Power Commission of Ontario for the purpose of—		
(a) The Niagara System	1,684,408.82	
(b) The Thorold System	27,945.38	\$3,007,803.93
		<hr/>
Miscellaneous and Interest Revenue		24,601.34

\$3,032,405.27

ACCOUNT.

Surplus brought forward 31st October, 1920		\$103,320.08
Operating Surplus for year brought down		
Provision previously made for claim of Toronto Power Company in excess of amount now found to be payable		193,564.18
Surplus arising by redemption in 1921 of bonds and debentures of the Power Company and the Transmission Com- pany out of revenue	\$277,709.48	
Less: Yearly provision for redemption of:—		
First Mortgage Bonds of the Power Company \$155,057.00		
Second Mortgage Debentures of the Power Company (to 30th June, 1921)	23,182.40	
First Mortgage Bonds of the Transmission Company (including American Exchange thereon)	34,040.62	212,280.02
		65,429.46

\$724,770.18

HYDRO-ELECTRIC POWER**Account With the Provincial Treasurer**

October 31st, 1921 :	
Cheque to cover Interest to date.....	\$4,463,345.38
November 1st, 1920 to October 31st, 1921 :	
Provincial Expenditures.....	647,017.72
Cash returned to Provincial Treasurer on account of advances for Central Ontario System, being in excess of expenditures.....	1,719,472.22
Balance carried down.....	103,830,317.63
	<hr/>
	\$110,660,152.95
	<hr/>

COMMISSION OF ONTARIO

For the Year Ending 31st October, 1921

November 1st, 1920 :

Balance brought down—

General Account.....	\$31,779,316.10	
Chippawa Development Account.....	22,360,000.00	
Central Ontario System Account.....	12,173,185.00	
Provincial Expense Account.....	10,449.00	
		\$66,322,950.10

November 1st, 1920 to October 31st 1921 :

Sundry Cash Advances :

General Account.....	\$7,736,614.23	
Chippawa Development Account.....	30,680,674.52	
Central Ontario System Account.....	820,000.00	
Provincial Expense Account.....	275,068.86	
		39,512,357.61

Balance due by Provincial Treasurer out of appropriation for

Provincial Expenditures as authorized by Orders in

Council, October, 1921..... 361,081.90

October 31st, 1921 :

Interest on Provincial Expense Account, Credit Balance..... 417.96

Interest on Balances from November 1st, 1920 to October

31st, 1921..... 4,463,345.38

\$110,660,152.95

November 1st, 1921 :

Balance.....\$103,830,317.63

SECTION IV

ELECTRICAL ENGINEERING AND CONSTRUCTION

ONTARIO POWER COMPANY

During the past year generator No. 7 was completely rewound with new coils purchased last year, and the main power cables on generators Nos. 7, 8 and 9 replaced, according to the plans outlined in last year's report.

As a result of having one totally enclosed generator (No. 16), and one semi-enclosed generator (No. 13), burn out and the armature windings totally destroyed because the attendants were unable to get at the fires to extinguish them, the Commission's engineers decided that open type end shields will be used in future. Recent tests on the new 15,000 k.v.a. generators had shown that the use of totally enclosed end shields, as designed for these machines, did not limit the temperature rise to a smaller range than that obtained when operating the machines with all end shields removed. In fact, the tests showed a slight difference in favor of the latter conditions. Therefore, in December, 1920, a contract was placed with the Canadian General Electric Company for one complete armature winding for the 8,776 k.v.a. machines, seven sets of open type end shields for the 8,776 k.v.a. machines and two sets for the 15,000 k.v.a. machines.

These new end shields were received and installed during the summer. and it is confidently expected that should another fire occur in one of these generators it can be put out by the use of chemical extinguishers before the winding is destroyed.

Port Colborne Distributing Station

The temporary installation for providing additional power to the Municipalities of Port Colborne and Humberstone, mentioned in the last report, was completed by the Commission's Construction Department in November, 1920.

QUEENSTON-CHIPPAWA DEVELOPMENT

QUEENSTON POWER HOUSE

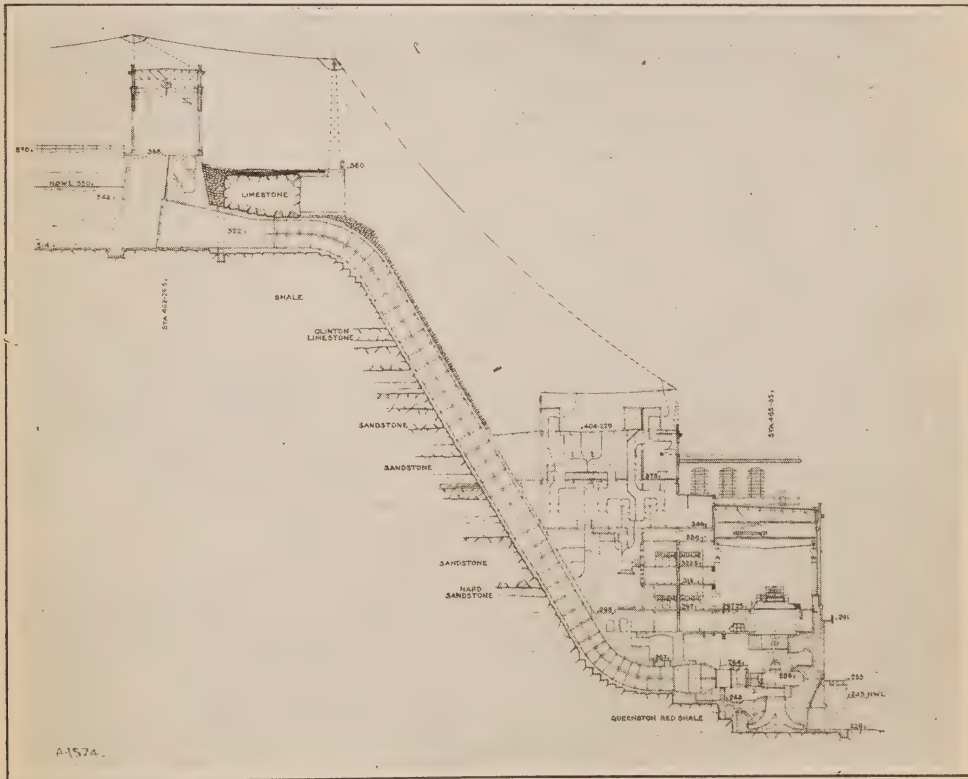
Power House Superstructure

The plans and specifications for a section of the superstructure of the Queenston Generating Station to accommodate five generators and two service generators with an erection space at the south end have been prepared.

The building at the generator room floor elevation will be 354 ft. 6 in. long by 137 ft. 4 in. wide and, as the face of the cliff is at an angle of 60 degrees to the horizontal, the building at the roof will be 196 ft. wide. The generator room is to be 60 ft. wide and 52 ft. high to a suspended ceiling at the underside of the trusses; the remainder of the building has six intermediate floors for the accommodation of the electrical apparatus.



Queenston-Chippawa Development. This conventional view shows how the completed Queenston Power House would appear if it were placed in front of the American Falls at Niagara



Queenston-Chippawa Development. Cross section through Screen House and Power House

The building is being constructed with a structural steel frame and reinforced-concrete floors; the walls are of concrete to the top of the parapet on the generator room roof; above this point the walls are of interlocking tile, surfaced with a cement gunite finish. The interior partitions supporting electrical apparatus are being built of concrete and all other partitions of hollow tile. The construction of 200 feet of the building has been completed.

The steel work, which amounts to approximately 2,800 tons, is being supplied by the Canadian Bridge Company, Limited, of Walkerville, Ontario.

Two cranes, supplied by the Dominion Bridge Company, each with a capacity of 150 tons, have been installed. The windows throughout are fitted with steel sash supplied by A. B. Ormsby Company, Limited, Toronto.

The fans for generator cooling purposes, which have a capacity of 120,000 cubic feet per minute, are being supplied by the Canadian Blower and Forge Company.

The elevators are being made by the Turnbull Elevator Company, Toronto, and include a passenger elevator from the entrance in the screen-house down to the tunnel which connects with the Generating Station, a passenger elevator at the south end connecting all floors and substructure and superstructure, and a push-button control elevator to be used for purposes of operation and located near the Control room.

Generators

The Canadian Westinghouse Company commenced shipment of parts of the first 45,000 k.v.a. generating unit in February and began its erection in April. The rotor was assembled in place in the machine on October 8th, 1921, and the erection work on the machine is now completed. It is expected that the water will be available for driving the turbine in December, and that the unit can be dried out, tested and put into commercial operation in January, 1922.

The erection of the second unit by the Canadian Westinghouse Company has followed immediately after the work on No. 1. The winding of the armature and assembling of fields of this machine are practically complete, and it is expected that the unit will be completed so that it can be put into service early in 1922. Work in the Canadian Westinghouse factory at Hamilton on No. 3 unit is well advanced so that it can be erected as soon as No. 2 is put into service. Factory work on the fourth and fifth units, which are being built by the Canadian General Electric Company at Peterboro, is also well advanced.

12,000 Volt Bus-Bar Supports and Disconnecting Switches

In accordance with the calculated possible short-circuit currents obtainable through a fault in the 12,000 volt connections of the station, a mechanical strength in cantilever of 10,000 pounds, and an electrical flashover strength of 80,000 volts for each bus-bar support were determined upon.

Disconnecting-switches of 3,000 ampere capacity and mounted upon units similar to the bus-bar supports, were also required.

Specifications for this equipment were sent out to the various manufacturers and tenders were called for.

The porcelain problem presented by these specifications was a formidable one. As the result of a long series of conferences with the manufacturers' engineers, supplemented by tests in the Commission's Laboratory upon samples submitted by them and comparison of the competitive prices the contract for this equipment was given to the Electrical Development & Machine Company of Philadelphia, Pa., on the understanding that manufacture would be carried out in Canada.

The work of manufacture was sublet by them to the Canadian Porcelain Company of Hamilton and the Canadian Line Materials Company of Toronto.

This equipment is being received and installed at the present time. A routine test of 5,000 pounds in cantilever is being applied to every bus-bar support before acceptance.

The disconnecting-switches will be operated in gangs of three by a hand-operated mechanism outside of the room in which the switches are installed. Signal lamps will show the operator whether the switches are open or closed.

12,000 Volt Floor and Wall Bushings

After considering a number of competitive designs of bushings submitted by the manufacturers, a design was drawn up by the Commission's engineers and competitive prices were obtained.

Ultimately the order for the porcelain pieces was given to the Canadian Porcelain Company of Hamilton.

These bushings are now being installed and tests show that they are very satisfactory and are very low in cost compared with other designs submitted.

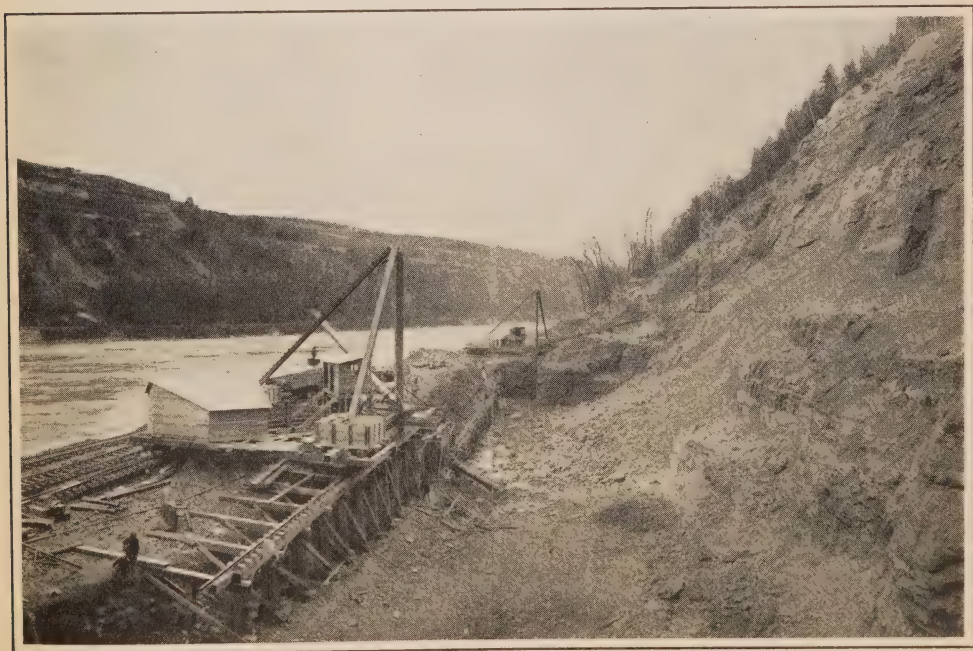
Transformers

The fifteen 15,000 k.v.a. 12,000-63,500 volt single-phase, water-cooled transformers being built by the Canadian Westinghouse Company at Hamilton are all nearing completion. The first two transformers were tested on July 16, 1921, and the first one was shipped on July 23, 1921; altogether seven transformers have been tested and shipped, while two others are almost completed. The remaining six transformers are well under way.

135,000 Volt Bus-Bar Supports and Disconnecting-Switches

The order for the 135,000 volt, 600 ampere disconnecting-switches was placed with the Canadian Westinghouse Company, and for the 135,000 volt bus-bar supports with the Electrical Development and Machine Company.

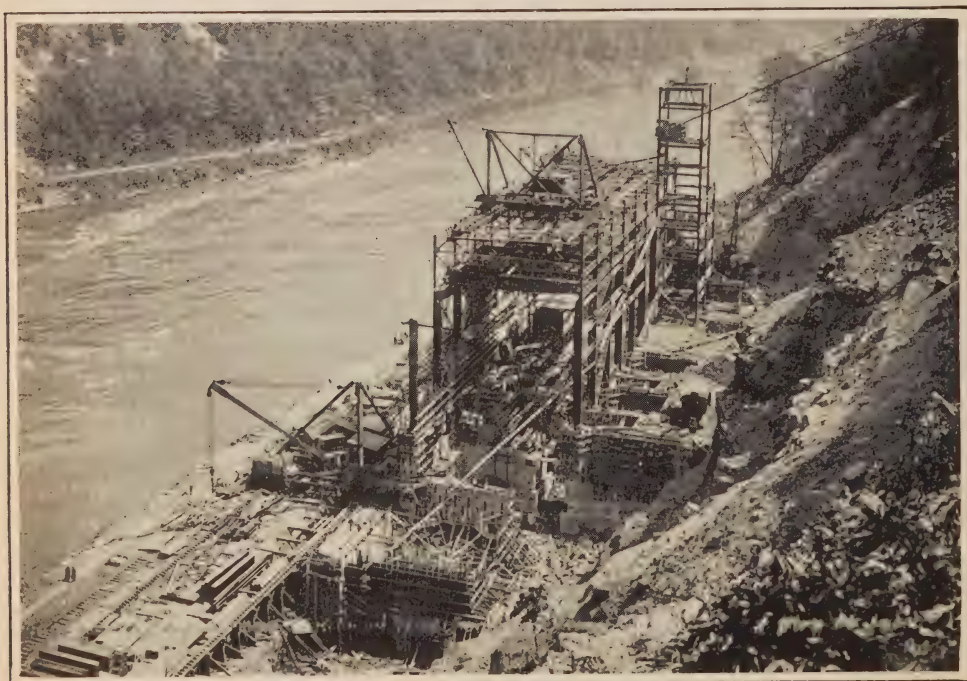
NOTE:—The Illustration below, together with the Frontispiece and the four illustrations on the next two pages, show the progress of the work at the Queenston Power House during the year.



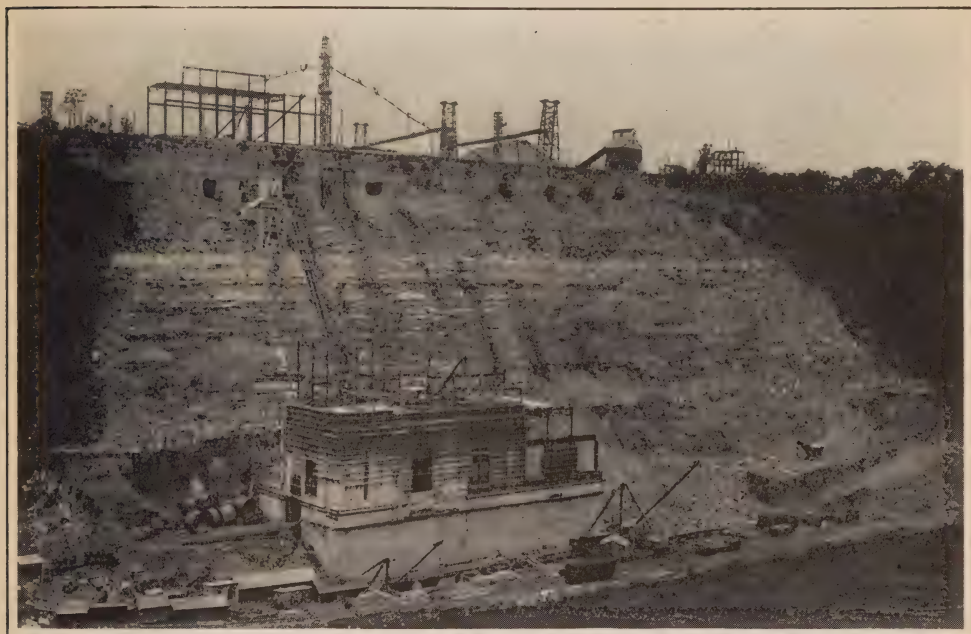
Queenston Power House: Site November 3rd, 1920



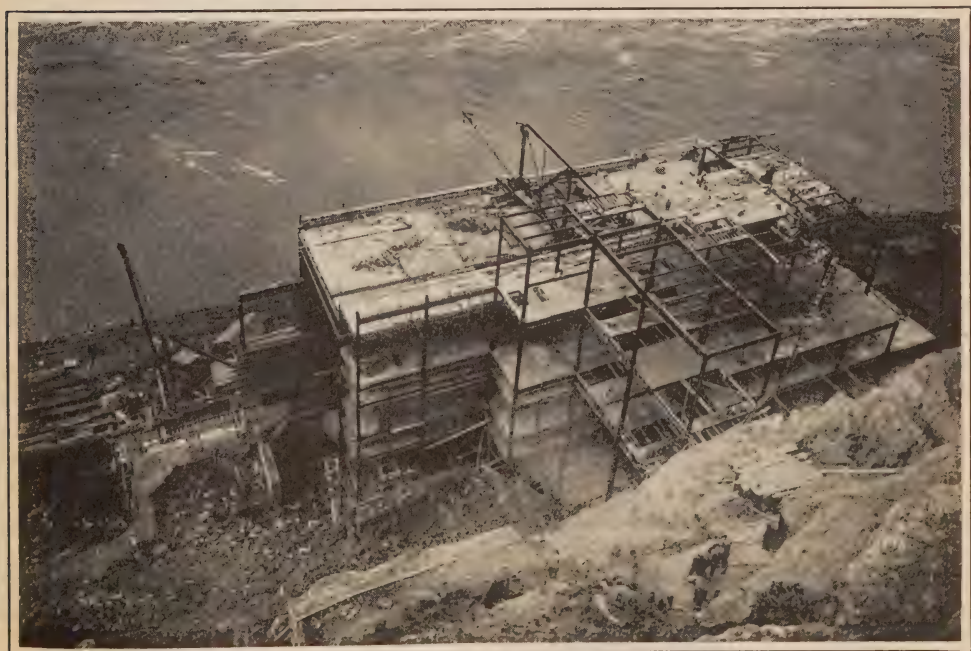
Queenston Power House: First Roof Truss in Place. February 8th, 1921



Queenston Power House: from the North-West. May 20th, 1921



Queenston Power House: from United States side of Niagara River. July, 1921



Queenston Power House: from Top of Cliff. October 3rd, 1921

The porcelain units are to be interchangeable and will have a flashover value of 350,000 volts and a mechanical strength of 40,000 inch-pounds in cantilever or torsion.

All the porcelains are being supplied by the Canadian Porcelain Company of Hamilton.

Switching Equipment

Nine type "C4," 12,000 volt, 3,000 ampere, oil circuit-breakers from the Canadian Westinghouse Company have been delivered, and are being installed. Three Canadian General Electric type "F," form "H.D.21," oil circuit-breakers have been delivered, and thirteen more are nearing completion at the Company's works. These circuit-breakers were ordered in 1920, as described in that year's report. Each circuit-breaker has sufficient capacity to take care of trouble with eight 45,000 k.v.a. units in normal operation. Four Canadian Westinghouse type "G.A.4," 110,000 volt, oil circuit-breakers have been tested and delivered; these are being installed. The remaining sixteen on the contract made in 1920 for these circuit-breakers are nearing completion. These will take care of the requirements for the first five generating units.

Much work has been done during the year in the engineering and drafting offices in laying out the details of the circuits of the power-house, in preparing specifications, and in comparing tenders in connection with the purchase of the necessary protective, metering and control equipment.

Protective Equipment

On January 4th, 1921, an order was placed with the Canadian General Electric Company for five sets of 135,000 volt Oxide Film lightning arresters for which tenders were received according to specifications mentioned in the 1920 report. These were delivered in May and June. In May, 1921, an order was placed with the Canadian General Electric Company for fifteen 155,000 volt, outdoor, suspension-type choke-coils; these have been delivered.

Twelve reactors, for installation between the units in the main 12,000 volt bus-bar, were purchased from the Canadian General Electric Company. These are rated at 2,165 amperes with 5 per cent. reactance at 45,000 k.v.a. They are of the cast-in concrete type and will withstand a flashover test of 80,000 volts. Six of these have been tested and shipped and the balance are ready for shipment.

Instrument Transformers

A good deal of study was given to the problem of obtaining suitable instrument transformers for service in the Queenston station. These transformers must withstand a test of 65,000 volts and their bushings a test of 80,000 volts without flashover. The order for sufficient 15,000 volt, 3,000 ampere current-transformers for the 12,000 volt circuits of five units was awarded to the Canadian Westinghouse Company in March, 1921. These consist of condenser bushings with one or more ring-type cores with secondary windings mounted thereon. The current-transformers for the 110,000 volt circuits are of the bushing type, 400 to 5 amperes ratio, mounted on the bushings of the 110,000 volt oil circuit-breakers and supplied with them on the contract placed in 1920 with the Canadian Westinghouse Company.

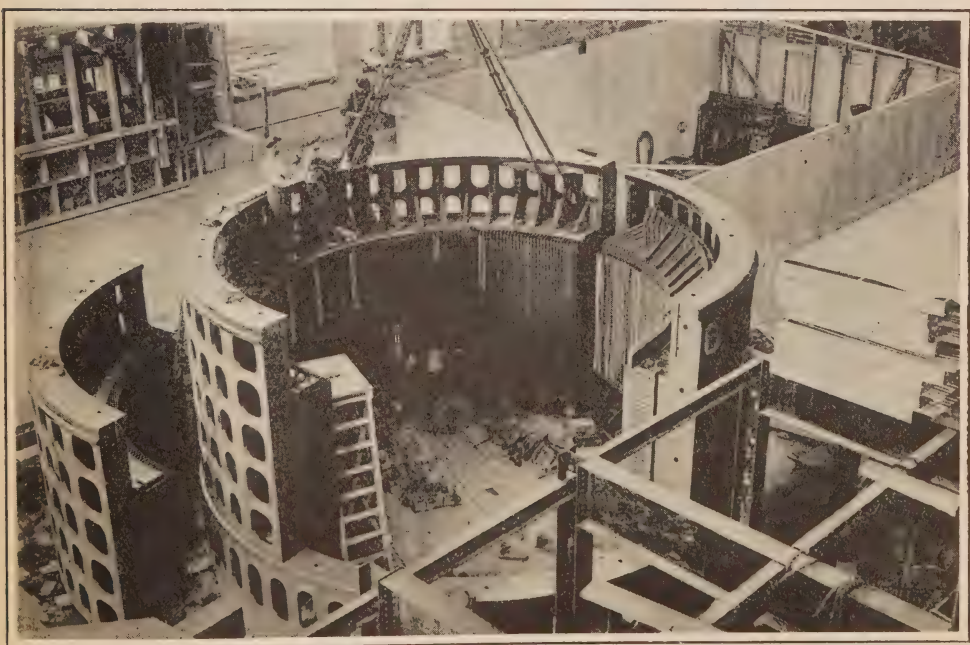
The 12,000 to 100 volt potential transformers with protective fuses and resistances were ordered in March, 1921, from the Canadian General Electric Company. Practically all these instrument transformers have been delivered.

Switchboards

Switchboards for controlling the units have been laid out and material for five main units purchased. Control switches and indicating lamps for oil circuit-breakers, rheostats and governor motors are Type "C.S." ordered in



Queenston Power House: Main Floor of Generating Station. October 3rd, 1921



Queenston Power House: 45,000 k.v.a Generator Stator During Assembly. June 7th, 1921

March, 1921, from the Canadian Westinghouse Company. Indicating watt-meters, direct-current volt-meters and ammeters, and alternating-current volt-meters and ammeters are of the Weston type, ordered from A. H. Winter-Joyner, Limited, in May, 1921. Synchronous indicators, power-factor meters and watt-hour meters were ordered from the Canadian Westinghouse Company in May, 1921. These have all been delivered.

Relay Systems

Based on a thorough study of the problem made by the Commission's engineers, in consultation with the engineers of the electrical manufacturing companies, a scheme of relay protection for the equipment in the station has been worked out. Its purpose is to disconnect, automatically, any part of the wiring or equipment which may break down and at the same time to retain in service the sound parts, and so minimise the possibility of interruption.

The equipment and wiring are divided into sections as follows: Generator, 12,000 volt bus-bar, 12,000 volt transformer bus-bar, transformer bank and 110,000 volt bus-bar. Each section is protected by a differential relay system. Current transformers are so located as to carry the current entering and leaving any section and are connected to each other, and to relays, so that, when the current entering a section is the same as the current leaving it, there will be no action of the relays; but when current which enters the section does not leave it over the regular path, as occurs in case of a breakdown, the relays will operate and open the oil circuit-breakers to segregate that section from the remainder of the plant. The relays for the generator differential are Canadian General Electric type "P.Q.6 instantaneous." The relays for the bus-bar differentials are Canadian General Electric Company plunger type "P.Q. Instantaneous" units. The type "C.O." relays and special current-transformers for the transformer differential protection were ordered from the Canadian Westinghouse Company to operate on the 15,000 k.v.a. transformer units which they are supplying. The outgoing lines will be protected by overload relays, type "I.A.," ordered from the Canadian General Electric Company. These relays have all been delivered.

In order to indicate which relay caused a switch to trip automatically, each relay is connected to a "drop" in an annunciator. One 16 "drop" annunciator is supplied for each unit. The "drop" in tripping closes contacts which ring a bell to attract the attention of the operator. These annunciators are of the Edwards type supplied by the Northern Electric Company.

Grounding Neutral

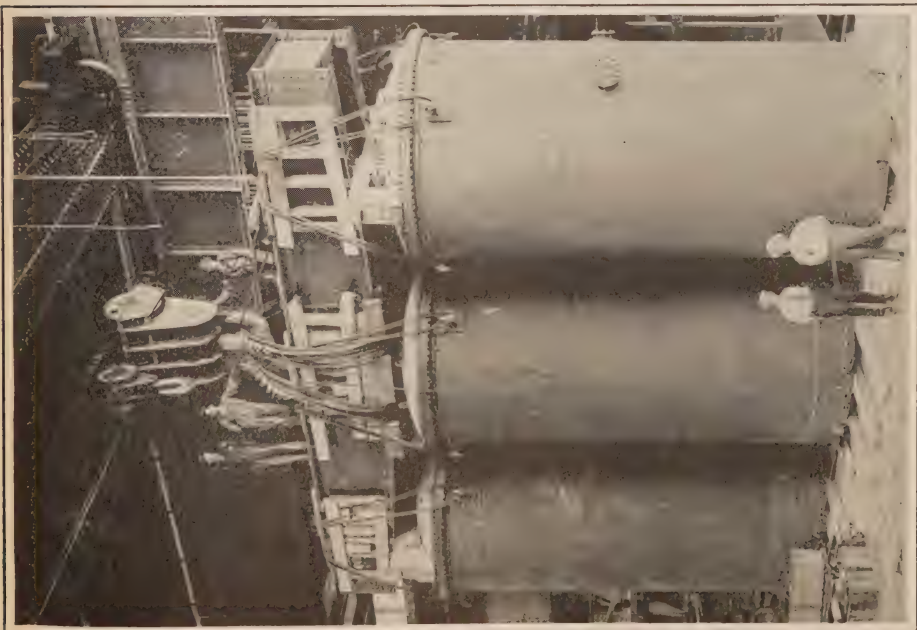
It is intended to operate the generators with a grounded neutral. Provision is made so that a grounding resistance can be used if deemed advisable. The ground connection of each generator is made through a Type "B2" oil-switch with three poles in parallel, supplied by the Canadian Westinghouse Company. It is the intention to operate with the neutral of one unit of each group of generators in parallel grounded. In each neutral connection to ground is installed a current-transformer whose secondary winding is connected to a relay with very low setting. This operates one of the drops on the annunciator and rings a bell in case of the passing to ground of any current, indicating a breakdown of insulation.

Station Service

The two 2,200 k.v.a., 2,300 volt service generators ordered in 1920 have been delivered and are being installed. These are to deliver power for lighting and heating in the power-house and screen-house, and for various motor driven auxiliaries such as pumps, fans and auxiliary exciters.



Queenston Power House: 45 k.v.a. Generator Rotor During Assembly. August 19th, 1921



Queenston Power House: Test Load on two 150 ton Cranes. September 10th, 1921

Standby Service.

On account of the absolute necessity for continuous operation of the service system, a standby source of power is being provided by bringing a 12,000 volt feeder from the Ontario Power Company's Generating Station. A 1,500 k.v.a. transformer for stepping down the voltage from 12,000 to 2,300 volts was purchased from the Canadian Crocker-Wheeler Company; this transformer is ready for shipment.

Cables have been taken from the two service generators and from the Ontario Power Company's feeder to the Service Switching Room located at Elevation 284, and connected to a set of bus-bars consisting of a sectionalized 2,300 volt bus-bar with a transfer bus-bar scheme. From this bus-bar power is distributed to the screen-house and to various loads in the power-house by a number of feeders. The generator, the Ontario Power Company's feeder and the bus-bar section tie-switches are electrically operated; the feeder switches are of the hand-operated, remote-controlled type. These were ordered from the Canadian Westinghouse Company in May and are type "B2," all mounted in concrete cells. The bus-bars and wiring from the switches are of the open type.

One feeder from the 2,300 volt bus-bars supplies current to a bank of three 300 k.v.a., 2,200/500 volt transformers made by the Moloney Electric Company and delivered in October.

Power from these transformers is taken to a system of 550 volt bus-bars from which feeders are run to various parts of the station, chiefly for supplying the smaller motors around the plant. The feeder switches are type "B," supplied by the Canadian Westinghouse Company.

The feeders from both 2,300 volt and 550 volt bus-bars are controlled from a switchboard in the service switching room. The panels for the latter were supplied by the Davis Slate Company, the instruments by the Weston Company through A. H. Winter-Joyner, Limited, the relays, which are type "IA101 inverse time overload," by the Canadian General Electric Company, the disconnecting-switches and current-transformers by the Canadian Westinghouse Company, and the potential-transformers by the Canadian General Electric Company. Cables for feeders have been supplied by the Standard Underground Cable Company and the Eugene Phillips Electrical Works, and cable terminals and junction boxes by A. H. Winter-Joyner, Limited (G. and W. type), and by the Standard Underground Cable Company. All this material has been received and is being erected by the Construction Department of the Commission.

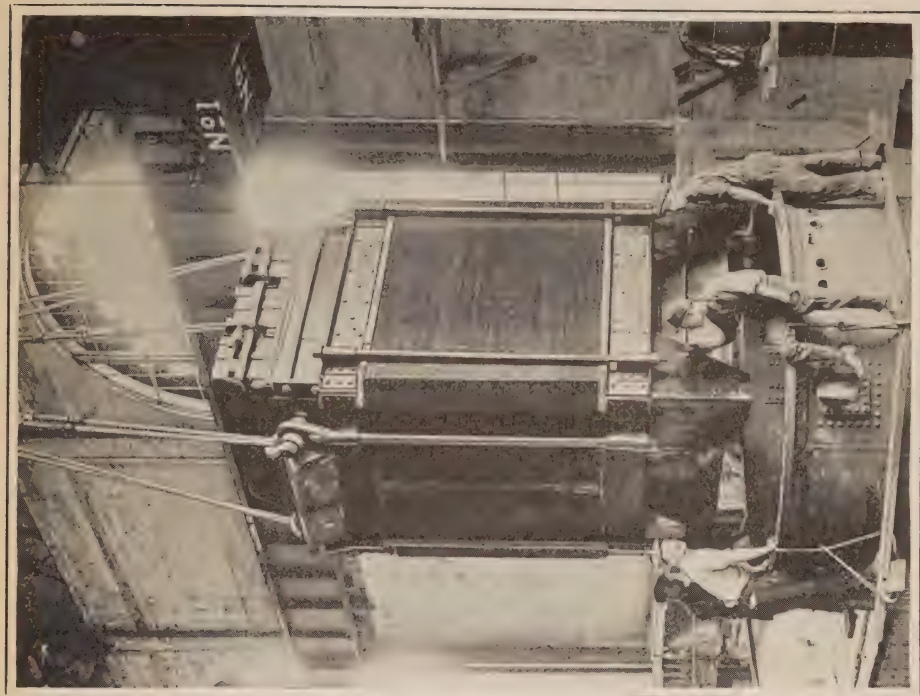
The electrically operated switches through which the supply of power reaches the bus-bars, are controlled from the main Station Control Rooms.

Lighting

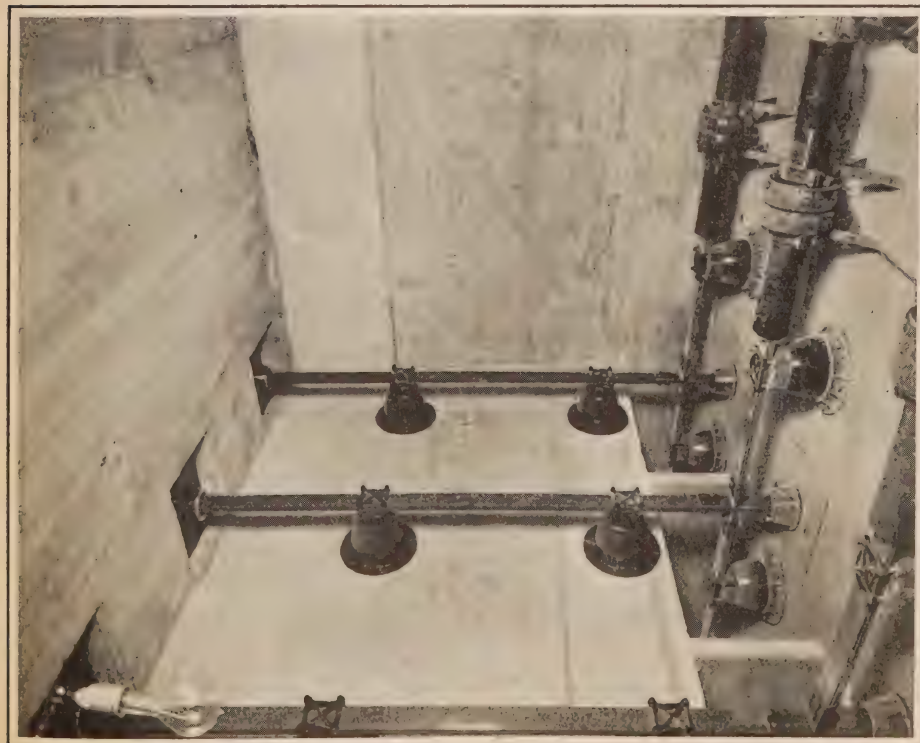
For lighting service seven transformers, each rated at 75 k.v.a., 2,200 volts to 220 and 110 volts, have been purchased from the Packard Electric Company. They will be operated in two banks of three each, with one spare. Two 220/110 volt, three-wire feeders serve each group of two section panel boards, each feeder being connected to one panel section. Emergency lighting is provided for the station-service switchboard-room, the stairs at the main elevator, and around the service generators, from one of the main oil switch batteries through an automatic transfer-switch.

Electric Heating—Power House

The main control-room will be heated electrically, as also will a few other parts of the station to which the warm air from the main generator cooling system cannot conveniently be supplied.



Queenston Power House: Placing 15,000 k.v.a. Transformer Core in Tank



Queenston Power House: North Bus Bar—No. 1 Unit. Elev. 312

Three 75 k.v.a., 2,200-550 volt, 25 cycle, single-phase transformers were ordered from the Packard Electric Company, St. Catharines, to be used to supply power for section "B" in the Power House. These transformers have already been delivered.

Control Circuits

For the control of oil-switches and for emergency lighting, two 250 volt storage batteries have been provided, so that uniform voltage can be maintained under all conditions. For each battery there is provided a charging motor-generator set consisting of a 25 h.p., 550 volt, induction motor supplied from the 550 volt service system, and a 15 k.w., 250 volt, shunt-wound generator.

As 230 volt lamps of the type used for indicators on switchboards in connection with switches and other equipment are not very satisfactory it was decided that a 32 volt, direct-current circuit would be provided for indicating purposes. This is accomplished by using a motor-generator set consisting of a 7 h.p., 230 volt, direct-current motor supplied from the 230 volt battery, connected to a $4\frac{1}{2}$ k.w., 32 volt, direct-current generator. Two of these sets are provided, one for each of the 230 volt batteries. To each 32 volt generator is connected a 32 volt storage battery for use as a stand-by in case of temporary shut-down of a motor-generator set.

The batteries are installed in two rooms on the floor at Elevation 332'. It is expected that one of the batteries will be removed to the opposite end of the station when the entire station is completed.

The 230 volt batteries consist of two 110-cell, Electric Storage Battery Company's type "E15," lead batteries. The 32 volt batteries consist of two 16-cell, Electric Storage Battery Company's type "E5," lead batteries. These were ordered from the Chas. E. Goad Engineering Company and were delivered in June. The motor-generator sets were supplied by the Canadian General Electric Company and were delivered in September.

Panels for controlling the batteries and motor-generator sets have been designed by the Engineering Department and are being built by the Construction Department. Slate for these was supplied by the Davis Slate Company, the circuit-breakers by the Cutter Manufacturing Company, and the instruments by the Weston Instrument Company through A. H. Winter-Joyner, Limited.

Temporary Control Room

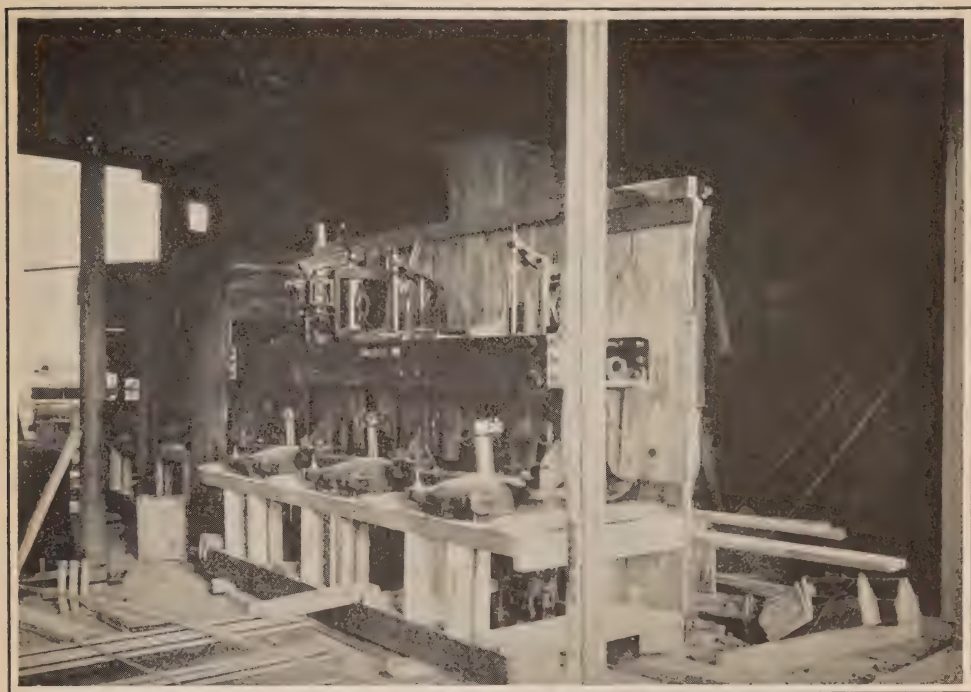
As the permanent control room for this station will be located in the section of the power house for Units No. 4, No. 5 and No. 6, which has not yet been built, it is necessary to put the control switchboard in a temporary location. The board is installed in the service end of the building at Elevation 332'. Temporary benchboards for instrument, relay and graphic instrument panels have been built by the Construction Department of the Commission and are being installed. Control and instrument cables were purchased from the Standard Underground Cable Company.

Installation of all equipment and wiring is proceeding rapidly and the station equipment will be ready to put No. 1 main unit into service as soon after water is available for driving as it can be dried out.

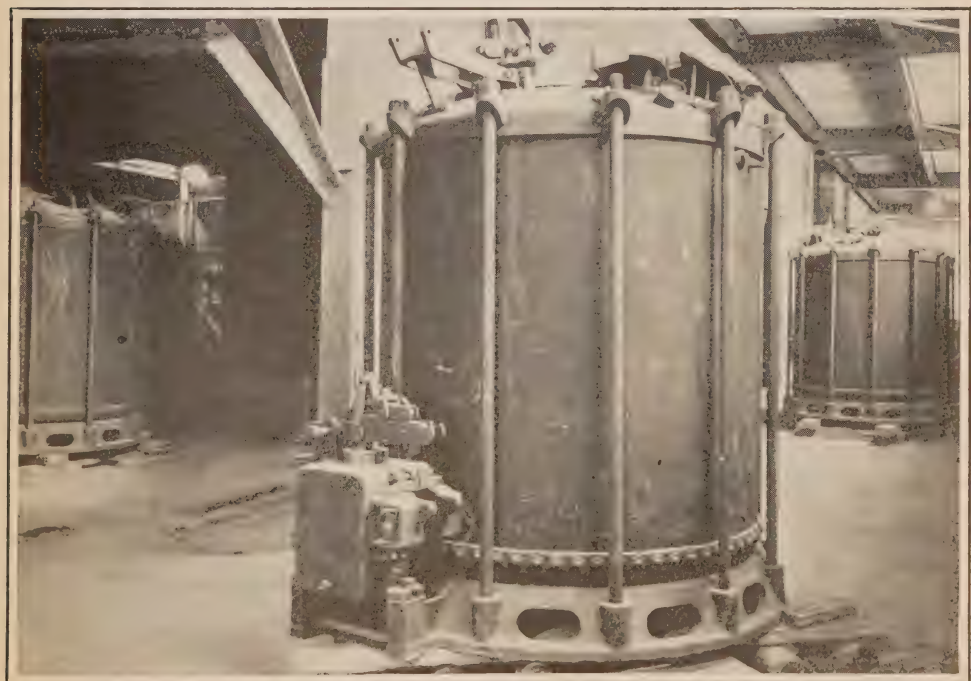
Auxiliary Systems and Equipment

Generator Lubrication System

A central system in duplicate, for circulating lubricating oil under pressure and purifying it, has been designed by the Commission's engineers and is being installed; it will be ready for operation when the first unit is ready



Queenston Power House: No. 1 Low Tension Circuit Breaker and Cells



Queenston Power House: 110,000 volt Circuit Breaker

to turn over. This installation will supply the full requirements of lubricating oil to the generator bearings, some 3,000 Imperial gallons per hour being needed for five main units.

Each system consists of the following equipment: Twin gear pumps of 30 Imperial gallons per minute capacity, built by the Albany Pump Company, driven by a 5 h.p., 550 volt, 3-phase, 750 r.p.m. motor of the Lancashire Dynamo and Motor Company's make; a three-inch pressure header in the East pipe tunnel; branches to the different units; pressure distribution at the generator to the thrust-bearing, two guide-bearings and governor-shaft; return branches to a 4-inch return header in the East pipe tunnel; a settling-tank three feet in diameter and 12 feet long; and a No. 600, De Laval, centrifugal oil-purifier with a small gear-pump and local circulating piping from, and to, the settling tank.

In addition, a 4,600 Imperial gallon, pneumatic tank, containing about 3,000 gallons of oil, is to "float" on whichever pressure system is in use for the time being.

A supply of compressed air to this pneumatic tank will be assured by connecting it through suitable regulating valves to the station air-pressure system.

The pneumatic tank will act as a reserve, under air pressure equal to the pressure in the header, and in case of the stopping of the circulating pumps it will instantly come into action and maintain the flow of oil as long as any oil remains in the tank and the air pressure is maintained. In the meantime, the other pressure system may be put into operation.

An overflow tank of 4,000 gallons capacity is connected to the settling-tanks through check valves to hold any excess oil supplied from the pneumatic tank.

Oil will be drawn continuously from the bottom of the settling-tank for purification in the DeLaval purifiers, either one or both of which may be used with either piping system.

Genuine wrought-iron piping is used throughout.

The tanks were purchased, under competitive tenders, from the Toronto Iron Works.

5,000 gallons of lubricating oil have been purchased from the Imperial Oil Company.

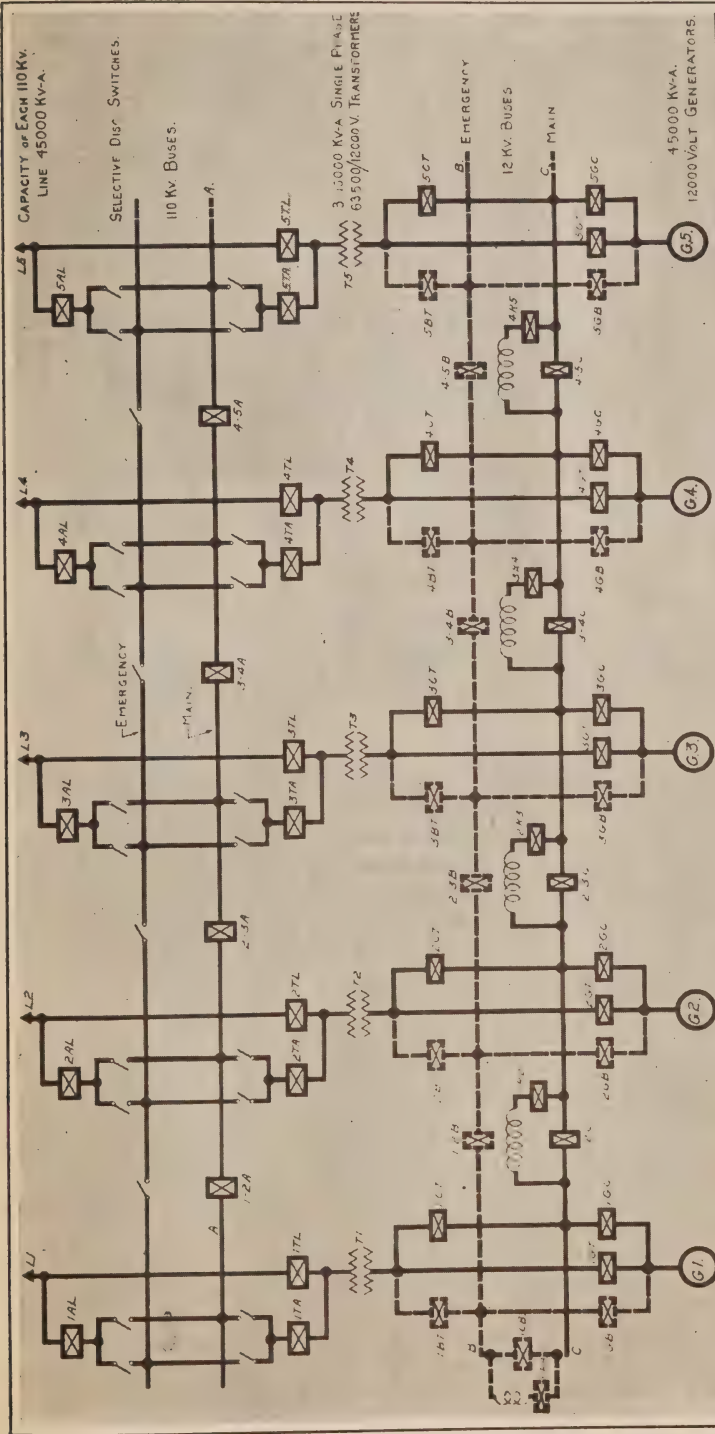
Auxiliary Exciter Set

Tenders were received in January, 1921, covering a motor-generator set for use as an emergency source of excitation for the main and service generators. In March an order was placed with the Swedish General Electric Company, Limited, of Toronto, for one 150 k.w., 250 volt, direct-current generator coupled to a 250 h.p., 25 cycle, 2,300 volt, induction motor which will be supplied from the 2,300 volt service system. Provision is being made so that this exciter can be connected readily to the fields of any main or service generating unit and be used with the regulator of the main unit.

Water-Cooling System

The water-cooling coils of the transformers and the generator thrust bearings will be supplied from a sectionalized 8 inch header in the West pipe tunnel. Each section of this header supplies the transformer bank and generator bearing of one unit, and is fed by a short riser from the main unit penstock.

As the static head on this piping system will be about 300 feet, extra heavy piping is used throughout.



QUEENSTON GEN. STATION. WIRING DIAGRAM OF MAIN CONNECTIONS.		HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO	
SUPERSEDES DRAWING OF SAME NUMBER DATED NOV. 27-19		DRAWN BY J.E.V. C.S.	
CHECKED BY J.E.V. C.S.		DATE MARCH 11, 1922	
REMARKS		2522028	

Queenston Power House: Wiring Diagram of Main Connections

Transformer Oil Handling System

A system of storage tanks, pumps and piping has been worked out for handling transformer oil under a great variety of conditions.

This system consists of a 2 inch "good" oil header, and a 4 inch "bad" oil header, in the West pipe-tunnel, connecting with all banks of transformers; two oil tanks of 7,300 gallons each, and a pair (used as one) of 4,600 gallon tanks; an "Albany" motor-driven gear-pump of 40 Imperial-gallons-per-minute capacity; a 12 inch by 12 inch, William Perin, Limited, filter press, and inter-connecting piping of genuine wrought-iron throughout.

The piping layout and valve arrangement for this system have been worked out so as to give centralized control of all possible operations in the immediate vicinity of the storage tanks and filtering equipment.

A scheme for changing poor oil for good oil under pressure in a transformer while in operation is being worked out.

A DeLaval portable transformer oil purifier has been ordered on a trial basis, and will be supplemented by a filter-paper press.

Switch Oil Handling System

A separate pair of headers and a pair of 4,600 gallon storage tanks and filtering equipment will be provided for handling switch oil so that an error in operating valves will not result in the mixing of switch oil with transformer oil.

Fire-Fighting Equipment

A central piping scheme for sprinklers, and fire-hose stations for chemical fire-extinguisher liquid, is being studied. In the meantime four portable, 40-gallon engines have been purchased from the Canadian Foamite Firefoam Company.

Testing Equipment

A 100 k.v.a. 2,200-100,000/50,000 volt, 25 cycle, testing transformer has been ordered from the Canadian Westinghouse Company, and a K-5 oil circuit-breaker and field rheostat have been ordered from the Canadian General Electric Company for use with this transformer; also, a sphere gap with 125-millimeter spheres is being built by the Commission's Production and Service Department. The above equipment is for use in testing the 12,000 volt equipment at the station and will be delivered in a few weeks.

Queenston Screen-House

Screen-House Superstructure

The plans and specifications for a section of the superstructure of the Queenston Screen-house have been prepared. The building will be 630 feet long and 41 feet wide and 56 feet high from grade to roof for the control of the gates, and approximately 266 feet of this building is constructed.

The steelwork in this section has been supplied by Messrs. McGregor and McIntyre, Limited, of Toronto, and a 25-ton crane has been installed which was supplied by the Dominion Bridge Company.

A section of the building at the south end, 66 feet long by 74 feet wide and 58 feet high from the basement to the roof, is being constructed with office space on the intermediate floors, and the entrance to the elevator connecting with the tunnel from the Generating Station is located in this section.

The building throughout is being constructed with steel frame and reinforced concrete slabs and walls. The windows are being fitted with steel sash and frames which are being supplied by the Dennis Wire and Iron Works, Limited, of Toronto, Ont., and the steel work for the administration section is being supplied by the Toronto Steel Construction Company, of Toronto.

Electric Lighting—Screen-House

Two 15 k.v.a., 2,200/110-220 volt, 25 cycle, single-phase transformers were ordered from the Canadian General Electric Company, of Peterboro, to be used in supplying power for lighting the Screen-House. These transformers have already been delivered.

Electric Heating—Screen-House

Electric air-heaters will be used throughout the administration end of the screen-house. Electric water-heaters will be used for house service.

Montrose Distributing (Construction) Station

On June 6th, 1921, Montrose Distributing (Construction) Station was completely destroyed by fire. This caused serious interference with construction work on the Queenston-Chippawa Canal and called for very prompt measures to be taken in rebuilding the station and restoring service. Orders, therefore, were placed immediately with the Canadian Westinghouse Company for two type "GA-3," 26,400 volt, 300 ampere, oil circuit-breakers, seven type "B-2," 4,500 volt, 400 ampere, automatic, oil circuit-breakers and miscellaneous 13,200 volt and 4,000 volt switching equipment. Two aluminum-cell, 3 phase, 27,000 volt, indoor type lightning-arresters, and nine 13,200 volt, 300 ampere, S.P.S.T. disconnecting-switches were ordered from the Canadian General Electric Company.

Arrangements having been made with the Aluminum Company of America to obtain on loan one 2,000 k.w., 600 volt, rotary converter with three 735 k.v.a., single-phase, 25 cycle, 12,000/440 volt transformers and complete switching equipment for the 2,000 k.w. unit, this equipment was moved from Niagara Falls, N.Y., to Montrose. On June 21st, this unit was placed in service and carried the total station railway load. The Toronto Hydro-Electric System consented to loan three 1,000 k.v.a., 25 cycle, single-phase 13,200/2,300-575 volt transformers, which were awaiting shipment from the Canadian General Electric Company's factory at Peterboro. These transformers, with the necessary switching equipment, were placed in service on June 13th and carried the total air compressor load on the station. One 1,500 k.v.a., oil-insulated, water-cooled, 3 phase, 25 cycle, 26,400-13,200/2,300-575 volt, Canadian Crocker-Wheeler Company transformer which had been held at Etobicoke Distributing Station as a Niagara System Reserve transformer, was shipped to Montrose on June 7th and placed in service on June 20th. A second 1,500 k.v.a., 3 phase, 25 cycle, 26,400-13,200/4,000-2,300 volt transformer which was ordered by the Kitchener Light Commissioners from the Canadian Westinghouse Company was obtained on loan from July 7th to September 4th. This transformer was replaced by the original Canadian Crocker-Wheeler Company, 1,500 k.v.a., unit which had been rebuilt.

This work was carried out by the Construction Department with all possible expedition and resulted in the restoration of service within fifteen days of the occurrence of the fire.

Whirlpool Distributing Station

On June 7th, 1921, one 1,500 k.v.a., 3 phase, 25 cycle, oil-insulated, water-cooled, 26,400-13,200/2,300-575 volt transformer of Canadian Crocker-Wheeler Company manufacture was shipped to the Whirlpool Distributing Station. This transformer belongs to the Niagara System reserve equipment; it was previously stored at Welland Station.

NIAGARA SYSTEM

NIAGARA TRANSFORMER STATION

The strengthening of the 12,000 volt bus-bars for the feeders from the Ontario Power Company and for the 110,000 volt transformers mentioned in last year's report was completed, the old original bus-bar supports being replaced by others of a heavier type. The taping of connections to these bus-bars and the installation of barriers over the openings in the structure were also finished. The manufacture and installation of the special operating mechanisms for the 2,000 ampere, 12,000 volt, main bus-bar disconnecting-switches in this station have been completed. Similar mechanisms are installed on disconnecting-switches mounted horizontally in the main bus-bars of the Canadian Niagara Power Company and of the Ontario Power Company in the station. The work described was carried out by the Construction Department and completed in August, 1921.

Work has been in progress on the construction of the necessary bus-bar structure, making changes in the existing structure, and the purchase and installation of cable, bus-bars and switching equipment required to make the No. 5 feeder of the Ontario Power Company deliver power to the 12,000 volt main bus-bar between No. 2 and No. 3 feeder structures of the Ontario Power Company at the north end of the station. This work is being carried out by the Construction Department and is expected to be complete in December, 1921.

On October 6, 1921, authorization was received for the removal of the Westinghouse type "C" relays from the 12,000 volt feeders and the installation of three Westinghouse, type "CR," reverse-power relays and one type "CO" ground-relay on all the 12,000 volt feeders, also for the addition of one Westinghouse type "KB" current-transformer in the middle phase of each feeder together with necessary changes in the wiring for these. This work will be carried out during the coming fiscal year.

The work of increasing the capacity of the 110,000 volt disconnecting-switches from 200 to 400 amperes, which was mentioned in last year's report, was completed in August, 1921.

In order to tie in temporarily with the Queenston plant, Westinghouse type "G44," 400 ampere, electrically-operated, outdoor, oil circuit-breakers will be installed in the A-1 and A-4 110,000 volt lines at a point some 250 feet from Niagara Transformer Station, and the Queenston lines will be connected to the A-1 and A-4 lines between the circuit-breakers and the station. This work will be carried out by the Construction Department by putting up a wooden pole structure to support the lines and disconnecting-switches, and by setting the oil-switches on concrete foundations.

Controllers and relays for these circuit-breakers will be mounted in the station itself and connected up with the circuit-breakers by lead-covered, armoured, control cables. Three Westinghouse type "CO", overload-relays and one ground-relay will be used per circuit-breaker. This installation will be completed early in January, 1922.

The construction of the sump and pump-house as outlined in last year's report was carried out by the Construction Department and completed in November, 1920.

Certain changes in the walls and ceiling of the 12,000 volt cable tunnel mentioned in last year's report were completed in April, 1921, the work being done by the Construction Department.



Montrose Substation: Destroyed by Fire on June 6th, 1921. Photograph Taken on June 7th, Showing Ruins and Preparations Already Begun for Clearing the Site for Rebuilding



Montrose Substation Rebuilt: Eight and a Half Days after Destruction of Original Substation by Fire

Niagara Falls Municipal Station

The engineering assistance mentioned in the last report was given in connection with the purchase and test of the 1,500 k.v.a. transformer, and the transformer was delivered in January, 1921. In December, 1920, authorization was given to install this transformer together with the necessary high-tension and low-tension switching equipment. This was completed by the Commission's Construction Department early in February, 1921.

In December, 1920, the local Commission gave serious consideration to the need for an entirely new station and it was decided to build one in the near future and to make no more changes than were absolutely necessary in the existing station. In June, 1921, the local Commission decided to build a new combined substation and office building and requested engineering assistance in connection therewith.

Preliminary plans of the electrical layout and building were prepared and submitted to the local Commission who approved of them and requested the preparation of final plans. Detail plans of the electrical layout are being prepared and specifications drawn up for the new equipment, on which quotations are being obtained.

The station is to be built at the corner of Victoria Avenue and South Street with an office building on the front end. The entire building is to be designed and the construction supervised by Mr. C. M. Borter, of Niagara Falls, the architect for the local Commission. The electrical equipment is to be installed by the Commission's Construction Department in accordance with plans to be prepared by the Engineering Department.

The substation portion of the building will be approximately 67 feet long, 38 feet wide and 44 feet high, inside dimensions. The office will be approximately 30 feet by 38 feet, and 44 feet high, inside dimensions. It is designed to accommodate two 12,000 volt incoming line equipments at present, with provision for one future 12,000 volt outgoing feeder equipment, and four 1,500 k.v.a., 13,200/2,300 volt, 3 phase, oil-insulated, water-cooled transformers with a transformer erection room and chain hoist.

The low-tension feeder equipment will consist of eight series street-lighting feeders with space for two future feeders; four 2,300 volt, commercial-lighting feeders equipped with potential regulators and space for two future feeders; one 2,300 volt station service feeder, and three 2,300 volt, power feeders with space for three future feeders.

For the present, the transformers from the existing station will be used. These consist of one 1,500 k.v.a., 13,200/2,300 volt, 3 phase, oil-insulated, water-cooled transformers and three 884 k.v.a. 12,000/2,200 volt, single-phase, oil-insulated, water-cooled transformers, all of Canadian Crocker-Wheeler Company manufacture.

The station will be fed by two 12,000 volt lines connected in through Canadian Westinghouse, type "GA-3," automatic, hand-operated, oil circuit-breakers to a bus-bar, from which connections are taken through disconnecting-switches to the transformers. All 12,000 volt equipment will be of the heavy-duty type, and will be protected by means of choke-coils, lightning-arresters, overload and reverse power-relays. All the 12,000 volt equipment, except the power transformers, is located on the second floor.

The low-tension, 2,300 volt, oil circuit-breakers will be automatic, with remote control, and will be mounted on the pipe frame work at the back of the switchboard, on which will also be mounted the main 2,300 volt bus-bars, and emergency bus-bars for use in case of trouble on any feeder breaker or on the main bus-bars. This equipment, together with the switchboard and the series street-lighting transformers is all in one large control-room on the main floor.

The transformers, erection room and track runway occupy the remainder of the main floor.

The voltage regulators and the oil and water pumps and equipment will be located in the basement. An area-way is being provided for the basement entrance to facilitate the storage of miscellaneous material in the basement.

The water for cooling the power transformers will be drawn from a cooling pond and returned to it, forming a circulating system.

It is expected to have the new station in operation by the middle of 1922.

Stamford Township Municipal Station

At the request of the local Commission, authorization was given in December, 1920, for the purchase of equipment, and the design and construction of a new, type "DR," station to replace the old outdoor station, which was in bad condition.

The new station provides for one 12,000 volt incoming line equipped with air-break switch and fuses, three single-phase, 12,000/2,300 volt transformers and two 2,300 volt outgoing feeders.

The building was completed in March.

The electrical equipment was installed and the three 175 k.v.a. transformers were moved over from the old station and installed, but only two of them were connected up, in open delta, as the third one was not in good condition. The station was placed in service in August.

As the 175 k.v.a. transformers were not in good condition, it was decided to replace them by new ones, and the necessary authority was obtained to remove the old transformers, and to purchase and install three 300 k.v.a. single-phase transformers and a 12,000 volt line oil-switch.

Three new 300 k.v.a. transformers were ordered from the Packard Electric Company in October and a new oil circuit-breaker for the 12,000 volt line is being ordered from the Canadian Westinghouse Company. It is expected that this equipment will be installed early next year.

DUNDAS TRANSFORMER STATION

The installation of the Canadian Westinghouse Company plain, round, tank type "GA," oil circuit-breaker controlling No. 1 transformer bank mentioned in last year's report was completed on December 17, 1920.

In January, 1921, it was decided to replace the type "E" oil-switches on the two Hamilton feeders by "GA3" oil-switches, also to install a type "GA3" oil-switch between the 13,200 volt station bus-bar and the emergency bus-bar. A second set of disconnecting-switches was installed in the 13,200 volt bus-bar, and the emergency oil-switch and service feeder oil-switch were connected to the bus-bar between No. 1 and No. 2 sets of bus-bar disconnecting-switches.

Disconnecting-switches were put in the lightning-arrester leads and the outgoing feeder leads were rearranged to suit. One set of potential-transformers was moved and installed at the right end of the 13,200 volt bus-bar, so that there is now one set of potential-transformers on each section of the bus-bar. The three 10 k.v.a. service transformers were removed from the gallery and installed on top of the toilet-room. This work was done by the Operating Department and was completed on October 15, 1921.

Hagersville Distributing Station

Due to increasing load at this station, the Commission, on March 2, 1921, authorized the purchase and installation of three 150 k.v.a., 1 phase, Canadian Crocker-Wheeler Company transformers to replace the three 75 k.v.a., 1 phase, Canadian Westinghouse Company transformers then in service. This work, done by the Construction Department, was completed on June 5th, 1921, the 75 k.v.a. transformers being stored on the station lot. The Hagersville Hydro-

Electric Commission requested the Commission to purchase and install an additional feeder panel and equipment. This was done and completed at the same time as the new bank of transformers was installed.

Saltfleet Distributing Station

In order to supply power to the Saltfleet Rural District, the Commission authorized, on September 21st, 1921, the purchase and installation of the equipment necessary for the erection of a pole type station to be fed ultimately from Hamilton Transformer Station using a 400 k.v.a., 3 phase, Moloney Electric, outdoor type transformer, and having one 4,000 volt, rural feeder. This work will be done by the Construction Department and will be completed early next year, power being obtained temporarily from the 13,200 volt line of the Hamilton System.

TORONTO TRANSFORMER STATION

Some delay has been experienced in waiting for equipment and also on account of tests made on No. 1 bank of transformers in March, 1921, which held up the installation of differential relay protection on the five banks of power transformers. It is expected, however, that this work will be satisfactorily completed towards the end of the year.

Synchronous condenser No. 1 was rewound to increase its capacity from 4,000 to 5,000 k.v.a., and was placed in service on December 16, 1920.

A two-section resistance was purchased and installed in August, 1921, in the field circuit of the synchronous condenser. One section of resistance is cut into the field circuit for lowering the voltage for synchronizing purposes and both sections are to be in circuit when it is required to obtain larger lagging currents. This work was carried out by the Operating Department.

The desirability of placing three 5,000 k.v.a., 63,500/26,400-13,200 volt transformers in Toronto Station yard for emergency use has been under consideration.

LONDON TRANSFORMER STATION

The installation of the 10,000 k.v.a. synchronous condenser with its switching equipment was completed in December, 1920, and the condenser was placed in service on December 21st, 1920.

In December, 1920, an order was placed with the Canadian Fairbanks Morse Company for a lubricating oil filter with two storage tanks and a hand rotary pump. This equipment was installed and connected up to the bearings of the condenser in February, 1921.

A switchboard-type temperature-indicator was ordered from the Leeds and Northrup Company of Philadelphia in April, 1921. This indicator, which is used in connection with thermocouples embedded in the stator winding of the condenser, was first placed in service on July 9th.

To provide additional transformer capacity, four of the 5,000 k.v.a. transformers purchased from the Canadian General Electric Company for use on the Niagara System will be installed in this station early in 1922. Three of the transformers will form a bank, while the fourth will be held as a spare. The three 2,500 k.v.a. transformers to be removed from No. 3 bank will be transferred to Guelph Transformer Station and the two 1,250 k.v.a. transformers now held as spares in the station will be stored in the yard pending their removal to another station.

Arrangements are being made to install equipment for an emergency 13,200 volt bus-bar in this station and also for a fourth feeder to the City of London.

Three 75 k.v.a. Siemens transformers removed from Port Stanley Distributing Station during the year are to be installed in this station to supply

power for electric heating. The heaters required will be manufactured by the Commission.

It is proposed to make some changes and improvements in the building during the coming year; these will include enlarging the main door, providing second exits from basements, and fitting up a dressing-room and shower-bath for the use of the operators and district maintenance men.

All this work will be done by the Construction Department of the Commission.

The replacement of 150/5 ampere and 200/5 ampere current-transformers with 400/5 ampere Canadian Westinghouse Company type "KB," current-transformers on three 13,200 volt feeders was completed on May 4, 1921, while the bracing of choke coils, which was to be carried out on all 13,200 volt feeders, was finished in July, 1921.

Improvements were made in the relay protection on the 110,000 volt outgoing lines to St. Thomas Transformer Station.

Canadian General Electric Company, "P.D.-3" type relays and Westinghouse, type "CO," inverse, definite-time overload-relays were installed in such a manner as to have the former type controlling when both lines are in service while the latter type are the controlling factor when only one line is in service. This work was carried out by the Operating Department and completed on October 30, 1921.

London Municipal Station

Engineering assistance was given during May and June to the London Public Utilities Commission in connection with the design and electrical layout for a new Municipal Station and the purchase of additional switching equipment for the same.

The station is required to accommodate, ultimately, eight 13,200 volt lines, four of which are incoming and four outgoing; six 1,500 k.v.a., 3 phase, power transformers; four 2,300 volt lighting feeders, four 550 volt power feeders, and six constant-current transformers with their feeders. A motor-generator set and 60-cell storage battery are to be provided for energizing the 110 volt, direct-current control-circuits.

The preliminary installation will consist of six 13,200 volt lines, three incoming and three outgoing; three 1,500 k.v.a., 3 phase transformers for 2,300 volt commercial and street lighting service and one 1,500 k.v.a., 3 phase transformer for 550 volt power service. In addition there will be three 550 volt power feeders, three 2,300 volt lighting feeders, and five constant-current transformers with feeders, each equipped with a 100 k.v.a., 3 phase, voltage regulator. The electrical installation is being carried out by the local Commission, who are using switching equipment purchased from the Canadian Westinghouse Company as mentioned in the 1919 report; while a contract has been placed with the same Company for other equipment required, including a sixteen-panel switchboard and the motor-generator set. The storage battery, a 60 cell, 120 ampere-hour unit, has been purchased from the Exide Battery Company of Canada, Limited. Plans and specifications for the building were drawn up by the local Commission, and the contract for the erection of the building was let to a local contractor. It is expected that the installation will be completed early next year.

GUELPH TRANSFORMER STATION

The load on Guelph Station has increased to a point which exceeds the capacity of the present bank of 1,250 k.v.a. transformers. A bank of three 2,500 k.v.a., oil-insulated, water-cooled, single phase, 25 cycle 63,500/110,000Y-13,200 volt transformers now located at London Transformer Station is to be

transferred to Guelph, and will be provided with differential relay protection when installed. This work is now in hand and will be completed in the coming year.

It was decided to erect a 110,000 volt, disconnecting-switch structure adjacent to this station for the purpose of sectionalizing the second high-tension line, and bringing a tap from it into the station bus-bar. This was completed by the Operating Department in October, 1921.

Guelph Municipal Station

In March, authorization was given for engineering assistance in connection with the purchase and test of one new 750 k.v.a., 3 phase transformer. Prices were submitted to the municipality, resulting in the purchase of the transformer from the Packard Electric Company. This work was completed in August, 1921.

PRESTON TRANSFORMER STATION

Owing to the heavy service required on the 13,200 volt feeders out of Preston Station, it was decided to increase the capacity of the type "C" oil circuit-breakers on these feeders. The Commission's approval of this was obtained, and an order for the necessary new parts required for these breakers was placed with the Canadian Westinghouse Company in February; delivery will be made early in November, when the breakers will be changed.

The No. 6 Transil oil in one power transformer was replaced by Electroseal oil, the work being completed by the Operating Department on July 31, 1921. The No. 6 Transil oil was stored in the station for use elsewhere when required.

It was decided to erect a 110,000 volt disconnecting-switch structure adjacent to this station for sectionalizing the second high-tension line and to bring a tap from it into the station bus-bar. This was completed by the Operating Department in October, 1921.

Forbes Mills

Arrangements have been made for the necessary changes at R. Forbes Mills to reduce the supply voltage from 6,600 volts to 2,200 volts, including the reconnecting of their three 75 k.v.a. single-phase transformers to suit the lower voltage. An estimate for this work was mentioned in last year's report and the work which is to be done by the Construction Department is expected to be completed early in 1922.

Galt Municipal Station

Engineering assistance was given the local Commission in connection with the electrical layout and wiring diagrams and designs for its projected new-sub-station. This station is required to accommodate five 13,200 volt lines, two incoming and three outgoing; four 1,500 k.v.a., 3 phase, 13,200/2,300 volt transformers, three 150 k.v.a., single-phase, 13,200/575 volt transformers; eight 2,300 volt lighting feeders with regulators and four 2,300 volt power feeders; six constant-current transformers with their feeders, and one 2,300 volt feeder for ornamental street lighting. Provision is also made for 13,200 volt and 2,300 volt bus-bars. Drawings made up by the local Commission were carefully checked over and returned with comments on March 22, 1921.

Construction is being carried out by the municipality and the station is expected to be ready for operation early in 1922.

Grand River Valley Railway Substation at Preston

It was decided to install a Lincoln graphic demand meter in the new Grand River Valley Railway substation at Preston for the Measurement of power. This will replace the Niagara Electric Improvement Company's graphic meter and will be installed early in November.

Hespeler Municipal Station

Engineering assistance was given to the Hespeler Hydro-Electric Commission in connection with changing the supply voltage of its station from 6,600 volts to 13,200 volts and rearranging its station layout to accommodate a switchboard in the transformer room. In addition, the wiring on the back of the switchboard is to be rearranged to comply with the requirements of modern engineering practice, and switching equipment is to be purchased and installed for one new 2,300 volt feeder. An estimate for this work was mentioned in last year's report and the work itself is to be done for the local Commission by the Construction Department and will probably be completed early in 1922.

Preston Municipal Station

Engineering assistance was given the Preston Water and Light Commission in connection with changing the supply voltage from 6,600 to 13,200 volts. The station layout is to be rearranged to accommodate two incoming 13,200 volt lines, one Westinghouse, type "E2," oil switch, four 750 k.v.a., 3 phase, 13,200/2,300 volt, oil-insulated, water-cooled transformers with remote-control, oil circuit-breakers on the low-tension side and four 2,300 volt outgoing feeders. The incoming 13,200 volt lines are tied together through disconnecting-switches to the one bus-bar inside the station. For the first installation only two 750 k.v.a. transformers will be used, these were procured in September, 1921, from the Packard Electric Company. Additional switching equipment is being purchased from the Canadian Westinghouse Company. An estimate for this work was mentioned in last year's report. The work itself will be carried out by local labor under the supervision of an engineer and foreman from the Canadian Westinghouse Company, and it is expected to complete it early in 1922.

KITCHENER TRANSFORMER STATION

The installation, mentioned in last year's report, of No. 2 bank of three 2,500 k.v.a. transformers with one spare together with the installation of differential relay protection on both No. 1 and No. 2 banks was completed by the Construction Department in May, 1921.

On November 8, 1920, the Operating Department completed the installation of larger capacity current-transformers on the 13,200 volt outgoing feeders mentioned in last year's report as being under contemplation.

Kitchener Municipal Station No. 1 and No. 2

The erection of the new sub-station at Kitchener referred to in the 1920 report and the installation of equipment therein were completed during the year. The power transformer for No. 1 station, however, was not available, consequently under the instructions of the local Commission, the new 1,500 k.v.a., 3 phase transformer originally intended for No. 2 station was installed in station No. 1, while three 500 k.v.a., single-phase transformers from the latter station were moved to station No. 2 and set up there. Steps are being taken, on the request of the Kitchener Commission, to purchase and install other equipment for connecting in a second incoming 13,200 volt line on the line side of the 13,200 volt, Westinghouse, type "GA3," line oil circuit-breaker. The work which was outlined in last year's report is being carried out by the Construction Department and should be completed and in service in December, 1921.

Waterloo Municipal Station

The extension to the substation mentioned in last year's report and the installation of the three new 750 k.v.a. transformers with the necessary switching equipment, were completed on August 20th, 1921.

STRATFORD TRANSFORMER STATION

There are no changes to record in this station, but on account of increasing load, estimates for an increase in the transformer capacity are being prepared.

Drayton Metering Station

The Packard, outdoor type, current and potential-transformers at this station are being replaced with three Westinghouse, type "MA," 25/5 ampere current-transformers and two Canadian General Electric Company, type E16, 2,200/110 volt, 25 cycle potential-transformers. The work is in the hands of the Operating Department and should be completed in December, 1921.

Harriston Distributing Station

The installation of a recording, reactive volt-ampere-meter mentioned in last year's report as being under contemplation, was carried out by the Operating Department, which completed the work on May 13, 1921.

Palmerston Distributing Station

The installation of a recording, reactive volt-ampere-meter mentioned in last year's report as being under contemplation, was carried out by the Operating Department, which completed the work on May 13, 1921.

Stratford Municipal Station

Engineering assistance was given to the local authorities in connection with the purchase and installation of one 750 k.v.a., 3 phase, 25 cycle, 26,400/-2,300 volt oil-insulated, water-cooled transformer and one 100 k.v.a., 3 phase, voltage regulator to operate with its primary in parallel and its secondary in series with the existing 100 k.v.a. regulator.

The capacity of the existing voltage-regulator circuit, moreover, required to be increased to supply a second regulator and an additional 2,300 volt out-going feeder was needed. A contract for the transformer, regulator and switching equipment was placed with the Canadian General Electric Company in June, 1921. The transformer and switching equipment will be shipped in November, 1921, and the regulator about January 1, 1922. The installation work will be carried out by the Construction Department and it is expected that the transformer will be in service in December, 1921, and the regulator about February, 1922.

ST. MARYS TRANSFORMER STATION

St. Marys Municipal Station

The second 750 k.v.a., 3 phase transformer mentioned in last year's report was delivered and was installed by the Construction Department on April 15,

St. Marys Portland Cement Company

On October 1, 1921, the Operating Department completed the installation of a Westinghouse recording reactive-volt-ampere meter and auxiliary equipment on the incoming 13,200 volt line, to replace the Westinghouse, graphic, recording power-factor meter.

WOODSTOCK TRANSFORMER STATION

Woodstock Municipal Station

Engineering assistance was given to the municipality in connection with the purchase and installation of the three 300 k.v.a., single-phase transformers mentioned in last year's report. The installation was completed on April 28, 1921.

ST. THOMAS TRANSFORMER STATION

The digging of the cooling-water well referred to in last year's report was completed in January, 1921.

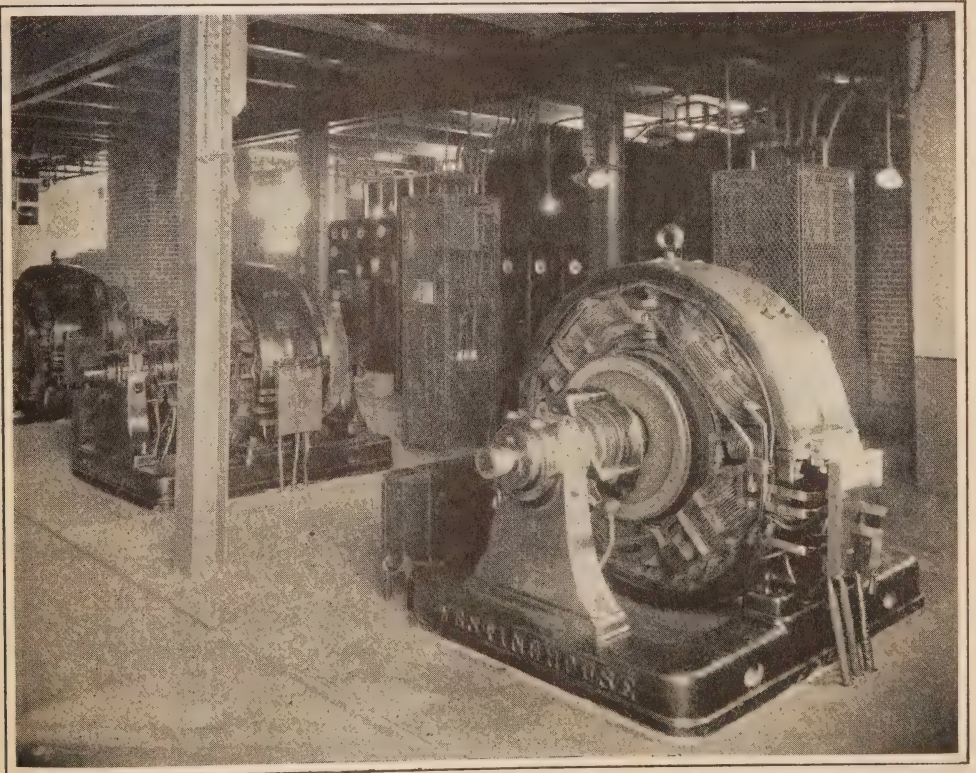
A Canadian General Electric high-speed, negative circuit-breaker was installed in connection with the rotary converters at this station. This circuit-breaker had been in temporary service for some eight months at Horton Street Station in London, although it was originally ordered for St. Thomas. Its installation was carried out by the Construction Department and completed on June 30, 1921.

Improvements were made in the relay protection on the incoming and outgoing 110,000 volt lines.

Westinghouse type "CR," reverse-power, double-contact relays together with one ground-relay were installed on incoming lines while Canadian General Electric, balance type, "PD3" relays and Westinghouse, type "CO," I.D.T.O. overload-relays were put in on outgoing lines. The arrangement is such as to allow of the "PD3" relays controlling when both lines are in service while the type "CO" controls when only one line is in service. This work was carried out by the Operating Department and completed on October 31, 1921.

Aylmer Distributing Station

The recording reactive-volt-ampere meter referred to in the 1920 report was installed at Aylmer on October 2, 1921.



Rotary Converters in St. Thomas Transformer Station

St. Thomas Municipal Station

The installation, by the Construction Department, of a water-works feeder panel and auxiliary equipment mentioned as being contemplated in last year's report was completed on January 13, 1921. The metering and switching equipment for the spare 750 k.v.a., 3 phase transformer, also mentioned in last year's report, was installed by June 26, 1921, the work being done by the Construction Department.

St. Thomas Municipal Station (Wilson Avenue)

At the request of the St. Thomas Hydro-Electric System, a power feeder panel with necessary equipment was purchased from the Canadian General Electric Company and will be installed early next year.

Port Stanley Distributing Station

The three 75 k.v.a., single-phase, Siemens transformers in this station were replaced by three 100 k.v.a., single-phase, Canadian Westinghouse transformers from Listowel. The Siemens transformers which thus became spare were stored outside the station at Port Stanley pending removal to London Transformer Station. Wall and roof ventilators were also put in this station, the work being completed by the Operating Department on February 27, 1921.

West Lorne Distributing Station

On May 10th, the Operating Department completed the installation of a recording reactive-volt-ampere meter and its auxiliary equipment on the West Lorne, 2,300 volt out-going feeder.

BRANT TRANSFORMER STATION

Brantford Municipal Station

Engineering assistance was given to the municipality in connection with the purchase and test of a 1,500 k.v.a., 3 phase transformer and four 3 phase reactors to enable the four 750 k.v.a. transformers already in the station to be operated in parallel with the new 1,500 k.v.a. transformer. The contract was let to the Canadian Crocker-Wheeler Company and the transformer was tested in September, 1921.

Simcoe Municipal Station—Port Dover Feeder

A switchboard panel with meters and other necessary material for a 4,000 volt feeder to the village of Port Dover have been ordered and with the permission of the local Commission, will be installed in its station early next year.

COOKSVILLE TRANSFORMER STATION

Port Credit Distributing Station

Instructions were received in October, 1921, to change the low-tension voltage from 2,300 to 4,000 volts. This change will be effected early next year.

Toronto Milling Company

The recording, reactive volt-ampere-meter mentioned in last year's report was duly installed by the Operating Department on April 9, 1921.

Weston Municipal Station

The low-tension voltage in this station was raised from 2,300 to 4,000 volts on September 19, 1921.

KENT TRANSFORMER STATION

During March, 1921, the Construction Department completed the work of increasing the capacity of the Canadian Westinghouse Company type "E", 26,400 volt, oil circuit-breakers, mentioned in last year's report as being under contemplation.

The current-transformers on two Sarnia feeders were rewound by the Operating Department for a ratio of 160-80/5-5 amperes and a third current-transformer per feeder was installed. This work was completed on April 19, 1921.

The Operating Department also rewound the current-transformers on two Chatham feeders for 160-80/5-5 amperes ratio.

The load on this station having increased to such an extent as to necessitate the installation of more transformer capacity, it was decided to replace No. 2 bank of 1,250 k.v.a. transformers with a bank of 2,500 k.v.a. units making the total capacity of the station 11,250 k.v.a. In addition a 26,400 volt emergency bus-bar is to be installed and improved relay protection given on the 26,400 volt feeders. This work will be done by the Construction Department and will be completed early next year.

The relay protection on incoming and outgoing 110,000 volt lines is to be improved by installing Westinghouse type "CR," reverse-power, double-contact relays and one ground relay on incoming lines with Canadian General Electric balance type "PD3" relays and Westinghouse type "CO," inverse definite-time, overload relays on outgoing lines. This work will be carried out by the Operating Department and will be completed in November, 1921.

Dominion Sugar Company, Wallaceburg

Work is proceeding on the installation of the metering equipment authorized for an outdoor station to be built by the Dominion Sugar Company.

Forest Distributing Station

Equipment has been purchased from the Canadian Westinghouse Company for a power feeder to supply the village of Thedford. This feeder will be installed by the Construction Department early next year and at the same time the low-tension voltage at this station will be raised from 2,300 to 4,000 volts.

Oil Springs Distributing Station

The 50 k.v.a., 3 phase transformer at this station broke down and was taken out of service on September 18, 1921. It was replaced temporarily by the 75 k.v.a., 3 phase transformer released from Essex Distributing Station. Ultimately this latter transformer will be replaced in turn by a 150 k.v.a. unit which will make the total capacity of the Oil Springs Station 225 k.v.a. It is expected that this equipment will be installed early in 1922.

Petrolia Distributing Station

Three 150 k.v.a. transformers in this station were replaced by three 300 k.v.a. units purchased from the Packard Electric Company. The installation, which included all necessary changes in equipment to take care of the increased capacity of the transformers, was carried out by the Commission's Construction Department and completed in October, 1921. The 150 k.v.a. units released by this transaction were stored in the market building near the substation, pending use elsewhere.

Sarnia Municipal Station

The 1,500 k.v.a. transformer mentioned in the last annual report as being installed was placed in service on December 12, 1920.

The remodelling of the pole structure outside the station and the placing of the feeders under ground was completed on January 31, 1921. In addition, all 4,000 volt feeders except the street railway and street lighting feeders were equipped with two extra Roller Smith type "FIA" ammeters each, purchased at the request of the local Commission. This work was completed in July, 1921.

Tilbury Distributing Station

On January 26, 1921 the Operating Department completed the installation of the recording reactive-volt-ampere meters and auxiliary equipment for the same on the Tilbury and Comber 4,000 volt, outgoing feeders.

Watford Distributing Station

Authorization was received in September for installing an additional 4,000 volt feeder for the Village of Alvinston. The 50 k.v.a., 3 phase transformer in this station, moreover, is to be removed and turned into stock on replacement by a 150 k.v.a., 3 phase transformer for which tenders have been requested. The pole structure will be changed as necessary to accommodate the above changes in equipment, and it is expected that the work will be completed early next year.

ESSEX TRANSFORMER STATION

On March 16, 1921, the Operating Department completed the rewinding for an 80-40/5-5 ampere ratio, of the current transformers on the Windsor feeders. They also installed a third current-transformer for each of these feeders.

Three Westinghouse type "CR," reverse-power, double-contact relays and one "CO" ground-relay were installed by the Operating Department on the incoming 110,000 volt lines to afford improved protection. The relays are operated by 400/5 ampere ratio, bushing type current-transformers. This work was completed on October 17, 1921.

Work is in hand in connection with the installation of No. 2 bank of transformers, consisting of three Canadian General Electric Company 5,000 k.v.a., 63,500/26,400-13,200 volt, oil-insulated, water-cooled transformers, and one spare of like rating. Arrangements are also under way for the purchase and installation of 26,400 volt switching equipment for one transformer bank, two new feeders, one emergency feeder and a new 26,400 volt emergency bus-bar.

Relay protection is being improved on the feeders, and steps are being taken towards the purchase and installation of a third current-transformer on each feeder not already so equipped.

The purchase and installation of larger capacity water-pumps rated at 300 gallons per minute and other changes in cooling-water supply are being considered. Arrangements are being made for differential relay protection on the two banks of transformers. The transformers should be installed by December, 1921, the work being carried out by the Construction Department under supervision of the Canadian General Electric Company's engineer.

The other work will be carried out by the Construction Department during the coming year.

Canard River Distributing Station

The installation of a Lincoln demand meter to replace the Canadian Westinghouse Company type "RA" demand meter was completed on October 22, 1921.

Cottam Distributing Station

The installation of a Lincoln demand meter to replace the Canadian Westinghouse Company type "RA" demand meter was completed on March 23rd, 1921.

Essex Distributing Station

The 75 k.v.a., 3 phase transformer in this station was replaced by a 150 k.v.a., 3 phase, Packard Electric Company unit and taken to Oil Springs for temporary service. The work was done by the Construction Department and completed on September 25, 1921.

Leamington Distributing Station

The installation by the Construction Department of switching and metering equipment for three 4,000 volt, outgoing feeders, and one 4,000 volt, incoming line was completed on August 1, 1921.

Sandwich, Windsor, and Amherstburg Railway

The installation of the 500 k.w., rotary converter and auxiliary equipment mentioned in last year's report was carried out by the Construction Department, and the unit placed in service on December 19, 1920, using temporary 4,000 volt switching equipment. The installation of the permanent switching equipment was completed in July 1921.

Windsor Municipal Station

Plans and specifications requested by the Windsor Hydro-Electric system for their station extension and equipment were duly prepared and submitted to the Municipality in June, 1921. On October 29, 1921, authority was received from the Windsor Hydro-Electric System to call for tenders on the building and equipment.

Tests were witnessed in April, 1921, on a 1,500 k.v.a. transformer purchased by the Municipality from the Canadian General Electric Company.

YORK TRANSFORMER STATION

It was decided not to install, at the present time, the graphic wattmeter, the installation of which was mentioned in last year's report as being under consideration.

Etobicoke Distributing Station

The Canadian Crocker-Wheeler Company 1,500 k.v.a., 3 phase, oil-insulated, water-cooled transformer placed in this station last year as a spare in case of emergency, was taken out and shipped to Montrose on June 7, 1921, to take the place of equipment destroyed in the fire which occurred at the latter station.

The 1,500 k.v.a., 3 phase, oil-insulated, self-cooled, Canadian Westinghouse transformer mentioned in last year's report was installed and placed in service on September 19, 1921, together with high-tension and low-tension switching equipment.

No. 2 transformer was re-connected so as to supply 4,000 volts instead of 2,300 volts on the low tension side to feed Mimico. All necessary changes were made in switching equipment and on the Mimico feeder. The work was carried out by the Construction Department and completed on October 19, 1921.

Mimico Distributing Station

The 2,300 volt feeder for the town of Mimico was taken out of the Mimico Distributing Station and arrangements were made to feed at 4,000 volts from Etobicoke Distributing Station. The change-over was completed on October 19, 1921.

HAMILTON TRANSFORMER STATION

To provide for the increasing Hamilton load it was decided to build a 110,000/13,200 volt transformer station near the east side of Hamilton. It is to be built on a site purchased on the south side of the Beach Road bordering on the easterly limits of the city of Hamilton. Work was authorized in July, 1921, but active construction will not be undertaken until early in 1922.

The station is designed for installing all the 110,000 volt switching equipment and power transformers outdoors, and the 13,200 volt equipment in adjacent one-storey buildings. The switch-board, oil and water-pumps, battery

and other station equipment, as well as a large erection room and crane, are in a separate building.

Electrical Equipment

The station is designed for three 110,000 volt lines, five banks of three 5,000 k.v.a. power-transformers, and 15 outgoing 13,200 volt feeders with all necessary station-service equipment. Provision is made for duplicate 13,200 volt bus-bars and a duplicate set of feeders from these bus-bars. Reactances with oil circuit-breakers are to be cut into the bus-bars between No. 2 and No. 3 transformer banks and between No. 4 and No. 5 transformer banks.

The first installation will consist of two incoming 110,000 volt lines; two banks of 5,000 k.v.a. transformers and one spare; one 13,200 volt bus-bar, and four outgoing, 13,200 volt feeders with the station-service equipment.

The seven outdoor power-transformers will be furnished by the Canadian Westinghouse Company, having been ordered in December, 1920. The outdoor high-tension switching equipment is also ordered from the Canadian Westinghouse Company.

Canadian Westinghouse Company, 13,200 volt, oil circuit-breakers and current-transformers are to be used throughout.

Ohio Brass Company 110,000 volt insulators are ordered. The 13,200 volt insulators and disconnecting switches are ordered from the Ferranti Electric Company.

NIAGARA SYSTEM RESERVE EQUIPMENT

In order to take care of the increasing load on the high-tension stations on the Niagara System, the Commission, on December 14, 1920, placed an order with the Canadian General Electric Company for twenty-one 5,000 k.v.a., 80 per cent. power-factor, 63,500/13,200-26,400 volt, 25 cycle, single-phase, water-cooled, outdoor-type transformers, and with the Canadian Westinghouse Company for nine transformers of similar rating. Six of the Canadian General Electric Company transformers and two of those from the Canadian Westinghouse Company are not required for delivery until July 1st, 1922, while the remainder are nearly all completed. These are allotted to the various high-tension transformer stations where increasing loads require additional capacity.

The Commission, realizing the advisability of carrying a reserve stock of transformers which would be available in case of failure to the larger distribution transformers in any of the Municipalities' or the Commission's distributing stations, purchased from the Canadian Crocker-Wheeler Company on July 14, 1921, two 1,500 k.v.a., 25 cycle, 26,400-13,200/2,300-4,000 volt, water-cooled, outdoor-type, three-phase, transformers. These are completed and held at the Canadian Crocker-Wheeler Company's factory in St. Catharines.

THOROLD SYSTEM

Thorold Municipal Station

Totalizing metering equipment for the municipality of Thorold was installed in September by the Construction Department. The equipment consists of one Canadian Westinghouse, graphic recording watt meter, one recording reactive volt-ampere meter and one watt-hour meter with necessary wiring, switching and testing fixtures.

SEVERN SYSTEM

BIG CHUTE GENERATING STATION

Instructions were received in October, 1921, authorizing the purchase of an air-compressor with a capacity of 20 cubic feet of free air per minute, and

its installation in the Big Chute Generating Station. Tenders have been called for on this equipment, and drawings are now prepared to cover its installation, which should be completed in January, 1922.

Barrie Distributing Station

To provide increased transformer capacity to meet the load requirements at the Barrie Distributing Station, it was decided in April, 1921, to purchase an additional bank of two 350 k.v.a., single-phase, 60 cycle, 22,000/2,300-575 volt transformers equipped with Scott taps, to operate in parallel with the existing Canadian General Electric bank of transformers.

Tenders were called for in May, 1921, and the contract was placed for these transformers with the Packard Electric Company. The 22,000 volt oil circuit-breaker was also equipped with current-transformers and relays for more adequate protection, and disconnecting-switches were installed in the high-tension leads of each transformer bank for disconnecting each bank from the station high-tension bus.

Additional 2,200 volt equipment, comprising a transformer circuit-breaker, meter, relays and switchboard panel was purchased.

The installation of equipment by the Commission's Construction Department was started September 15th, 1921, and completed October 27th, 1921.

Bradford Distributing Station

Increased transformer capacity being required at the Durham Distributing Station, and the load at Bradford not increasing in accordance with expectations, it was decided in June, 1921, to move the three 100 k.v.a., 22,000/2,300-575 volt, 60 cycle, Moloney transformers from this station to Durham, and replace this equipment with a new three-phase, 60 cycle, 75 k.v.a., 22,000/2,300-575 volt, Canadian General Electric transformer. These transformers were installed June 26th, 1921, and the Moloney transformers shipped to Durham, the work being handled by the Commission's Construction Department.

Coldwater Distributing Station

Load Conditions in the Municipality of Coldwater in January necessitated increased transformer capacity in the Coldwater Distributing Station. Instructions were received in January, 1921, authorizing the installation of one 25 k.v.a., single-phase, 60 cycle, 22,000/2,300-575 volt transformer, to be obtained from the Port McNicoll Distributing Station, and operated in conjunction with the two existing 25 k.v.a. transformers in the Coldwater Distributing Station. This was done by the Commission's Operating Department on January 9th, 1921.

Collingwood Distributing Station

The 22,000 volt, Delta-Star lightning-arrester referred to in last year's report was installed in November, 1920.

Cookstown Distributing Station

Severe lightning disturbances on the section of line in the vicinity of Cookstown indicated the necessity for more adequate protection of equipment at the Cookstown Distributing Station. Authorization to purchase a 22,000 volt, Delta-Star lightning-arrester was obtained in April 1921, and its installation was completed by the Commission's Operating Department on July 29th, 1921.

Port McNicoll Distributing Station

Instructions were received in January, 1921, to dismantle the Port McNicoll Distributing Station, and to remove the low-tension feeder equipment to the C.P. Ry., Port McNicoll Distributing Station, serving the Municipality

of Port McNicoll from the 550 volt bus-bars in this station. Two 15 k.v.a., 60 cycle, 2,200/550 volt service-transformers were purchased, and installed on a pole-structure on the C.P.R. property. They are used to step up the voltage from 550 to 2,200 volts, which is the distribution voltage of the local system. Other equipment, with the exception of the power transformer removed from the original Port McNicoll Distributing Station, has been turned over to Maintenance Stock on this System. This new station was placed in service February 16th, 1921. One 25 k.v.a. transformer was transferred to Coldwater Distributing Station and installed at this point in January, 1921. The other transformer is now held in the Severn System Reserve Equipment and stored at Waubaushene Distributing Station.

Victoria Harbor Distributing Station

Owing to the high maintenance costs and to the necessity of having an operator to charge the electrolytic lightning arrester in the Victoria Harbor Distributing Station, instructions were received in April, 1921, authorizing the purchase of a Delta-Star, graded-resistance, lightning-arrester, to replace the old equipment.

This arrester was purchased in May, 1921, and its installation was completed by the Commission's Operating Department in July, 1921. The electrolytic arrester removed from service has been turned over to the Maintenance Stores on the Severn System to be used as spare equipment for arresters of the same type now in service at stations of the northern system.

EUGENIA SYSTEM

Durham Distributing Station

Instructions were received in March, 1921, to replace the graphic, recording demand-meter measuring the Holstein feeder load in the Durham Distributing Station with a Lincoln demand meter. This meter was purchased on April 5th, 1921, and the interchange of equipment made on May 27th, 1921, by the Operating Department of the Commission.

Additional load requirements in June, 1921, necessitated the purchase of transformers of larger capacity, the three 50 k.v.a. Canadian General Electric transformers being replaced with three 100 k.v.a., Moloney transformers from the Bradford Distributing Station. These new transformers were installed on July 3, 1921, the smaller transformers being stored outside the distributing station pending disposition. This installation was taken care of by the Commission's Construction Department.

Hanover Distributing Station

The installation of the third three-phase, 750 k.v.a. Packard Electric transformer mentioned in the last report was completed by the Commission's Construction Department and placed in service on March 20th, 1921.

In May, 1921, instructions were received for the erection of an outdoor switching-station immediately in the rear of the existing distributing station.

The design provides for the two 22,000 volt lines from Durham to come into this station through Westinghouse outdoor-type, "GA-3," oil circuit-breakers, each leading to a separate set of bus-bars, and controlled by Westinghouse reverse-power relays.

A tie-bus, with disconnecting-switches at each end, serves to parallel the two lines if required. The line to Kincardine is connected to this tie-bus through a third "GA-3" oil circuit-breaker controlled by Canadian General Electric type "PQ," overload-relays, while two H.E.P.C. air-break switches and S & C fuses are provided, through which the Chesley line can be connected to either main bus-bar.

Provision is made for feeding Hanover station from either of the two, main bus-bars through feeders controlled by disconnecting switches.

100/5 ampere H.E.P.C. air-insulated current-transformers are being installed in both the Durham and Kincardine lines, and provision is made for the future installation of another line to Kincardine.

The work is in the hands of the Construction Department and should be completed in January, 1922.

In September, 1921, the Municipality of Hanover purchased a 300 k.v.a., 4,000 volt, Crocker-Wheeler synchronous condenser with switching equipment, and instructions were issued, at its request, covering the installation of this equipment in an extension to the existing Hanover Distributing Station. This condenser will be used by the Municipality for power-factor correction of the local system load.

Telephone equipment is being installed in this station to meet the requirements of the district.

Instructions were received in May, 1921, authorizing the purchase of a telephone for the patrolman's residence. The equipment was purchased and installed by the Commission's Operating Department in July, 1921.

The necessity at this location of a storehouse for maintenance stock on the lines and stations was recognized, and in May, 1921, authorization was received covering the purchase of a small sheet-metal building, the property of Mr. Edward Knechtel, of Hanover. This building was bought by the Commission in June, 1921, and moved to the Commission's site on August 1st.

Owing to a change of plans it was decided not to install the second 22,000 volt line into the Distributing Station; this was referred to in last year's report as likely to be constructed in the Spring of 1921.

Holyrood Distributing Station

The installation of equipment in the new Holyrood Distributing Station, as mentioned in the last annual report, was completed by the Commission's Construction Dept. and the station placed in service during April, 1921.

Kincardine Distributing Station

The installation of three 125 k.v.a. transformers and electrical equipment in the remodelled Kincardine pumping station as mentioned in the last annual report was completed, and the station placed in service in May, 1921.

Orangeville Distributing Station

The removal of the three 150 k.v.a., Moloney transformers from service in the Orangeville Distributing station and their replacement by three 100 k.v.a. transformers from Amherstburg Distributing Station, Essex County System, as mentioned in the last annual report, was completed by the Commission's Construction Department on January 9th, 1921. The displaced 150 k.v.a. transformers were shipped to Walkerton Stone Quarry Distributing Station for service at that point.

Owen Sound Distributing Station

Authorization was obtained in April, 1921, to purchase and install disconnecting-switches in the arrester leads. This work was completed by the Commission's Construction Department in June, 1921.

Instructions were received in October, 1921, to replace the graphic, recording Niagara Electric Improvement Company demand-meter with a Westinghouse graphic watt-meter for more accurate power measurement. This change is being made and should be completed early in December, 1921.

Priceville Distributing Station

The installation of equipment in the Priceville Distributing Station, as mentioned in our last report, was completed and this station placed in service March 17th, 1921.

Teeswater Distributing Station

The installation of equipment in the new Teeswater Distributing Station, as mentioned in our last year's report, was completed and the station placed in service during May, 1921.

Instructions were received in April, 1921, authorizing the purchase of a patrolman's telephone equipment. This equipment was installed by the Commission's Operating Department in July, 1921.

Walkerton Stone Quarry Distributing Station

The installation of equipment in the new Stone Quarry Distributing Station, as mentioned in the last report, was completed by the Commission's Construction Department and placed in service on February 28th, 1921.

Wingham Distributing Station

The installation of equipment in the new Wingham Distributing Station, as mentioned in the last report, was completed and the station placed in service during April.

Engineering assistance was also given to the Municipality in connection with the re-wiring of the local generator switchboard. This work was completed by the Commission's Construction Department on June 21st, 1921.

WASDELLS SYSTEM

Beaverton Distributing Station

The importance of the load on the Beaverton feeder in the Beaverton Distributing Station necessitated the purchase of a Westinghouse, recording, reactive volt-ampere-meter and its installation on this feeder. The meter was purchased in May, 1921; installed by the Commission's Operating Department and placed in service on October 16th, 1921.

Kirkfield Distributing Station

In order to obtain better communication with the station operator at the Kirkfield Distributing Station, authorization was received in April, 1921, to purchase additional telephone protective equipment to be installed in the Kirkfield Station, and to purchase a gong and secondary equipment to be placed in the machine shop of the crushed-stone plant. This equipment was installed by the Commission's Operating Department in July, 1921.

ST. LAWRENCE SYSTEM

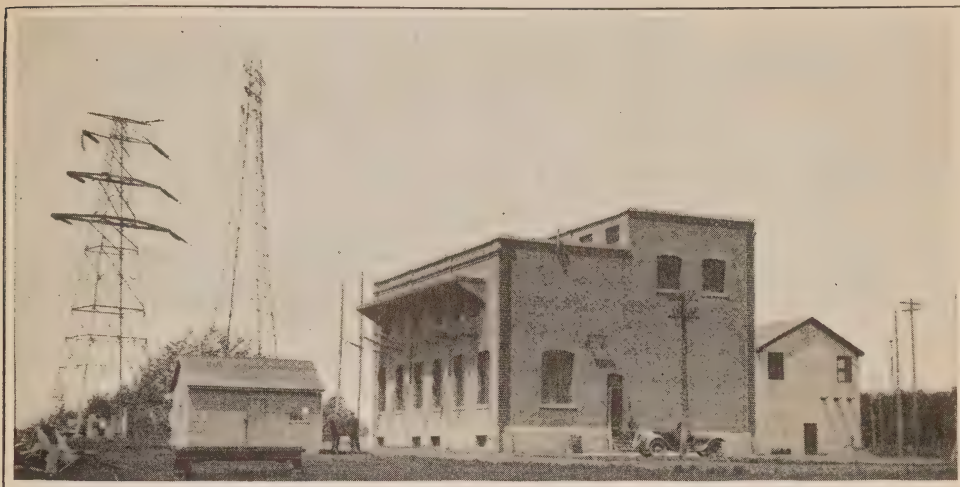
CORNWALL TRANSFORMER STATION

Four 5,000 k.v.a., 60 cycle, 63,500/26,400-13,200 volt, single-phase, outdoor-type transformers were ordered from the Canadian General Electric Company to replace the four 1,250 k.v.a. units now in the station.

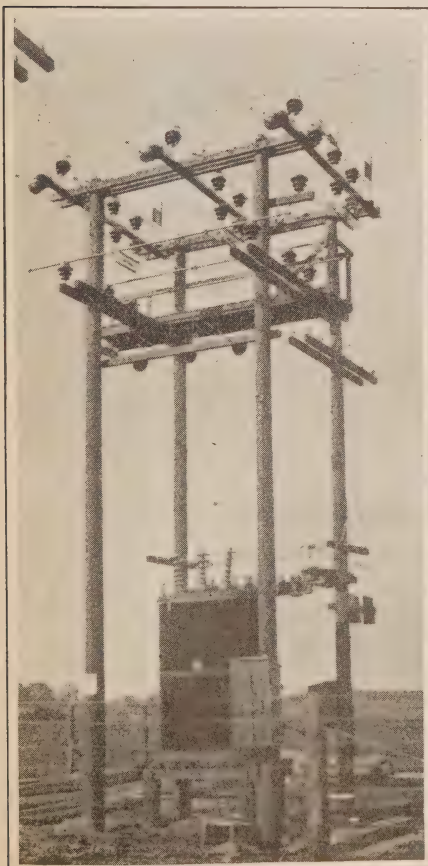
Plans have been prepared to cover certain changes in the station necessary for the accommodation of these larger units, as also for the temporary installation of these latter out of doors while the station alterations are being made.

The new transformers will be ready in 1922, when it is anticipated that the load will have increased sufficiently to require their immediate installation.

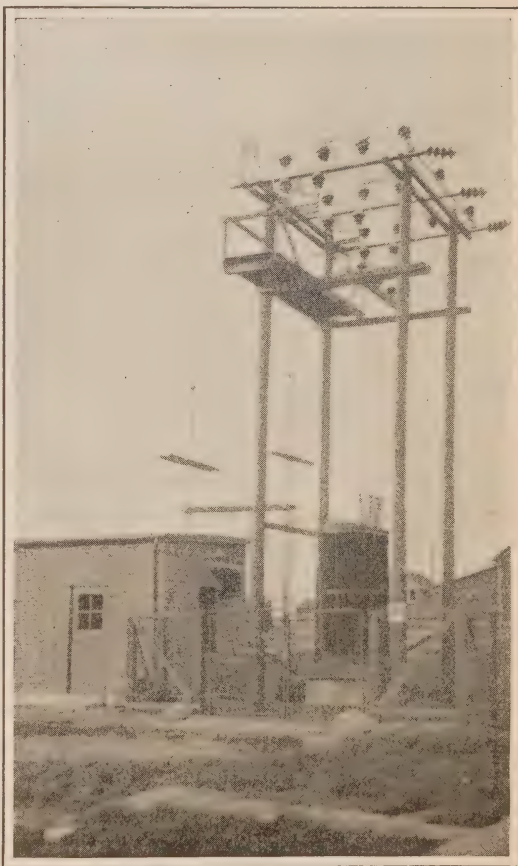
In the meantime, however, a temporary station has been erected as a precautionary measure to take care of any sudden increase of load. This consists of a wood frame and corrugated, galvanized-iron building put up close to the main Cornwall station, in which are installed, ready for connection, four 750 k.v.a., 25 cycle, 63,500/13,200 volt transformers on loan from the Niagara System.



Cornwall Transformer Station. May 18th, 1921



Apple Hill Distributing Station.
May 18th, 1921



Alexandria Distributing Station.
May 18th, 1921

Alexandria Distributing Station

This station was fully described in the last report. It was placed in service on January 18th, 1921, and the installation completed during April.

Apple Hill Distributing Station

The station which was installed at this point was formerly intended to be placed at Martintown, but due to a change in the plans for serving the district in this vicinity, it was placed at Apple Hill. It is a standard H.E.P.C. pole-type station with a 300 k.v.a., 3 phase transformer, but as no meter house has been built at the present time the metering equipment was placed outdoors; power will be supplied to it over the 26,400 volt line from Cornwall Transformer Station. The Apple Hill Station is designed for 44,000 volts, but will be operated at 26,400 volts for the present.

The high-tension switching supplied by the Monarch Electric Company consists of air-break disconnecting switches, fuses, choke-coils and arresters. The transformer was bought from the Packard Electric Company and is a standard 300 k.v.a., 60 cycle, 3 phase, 44,000-26,400/4,160-2,400-600 volt, outdoor transformer. This station supplies power not only to Apple Hill, but also to Maxwell. It was placed in service on February 22, 1921.

Cornwall Pulp & Paper Company Distributing Station

Standard H.E.P.C. metering equipment was installed on the Company's switchboard panel to measure power which is sold to the company on the high-tension bus-bars.

The two 50,000/25,000-100 volt potential-transformers for this installation were purchased by the Commission from the Packard Electric Company, while arrangements were made with the pulp company for joint use of its current transformers.

Toronto Paper Company Distributing Station, Cornwall

As outlined in last year's report, a 750 k.v.a. transformer was installed temporarily in this station, pending delivery of the 1,500 k.v.a. unit ordered from the Canadian General Electric Company, the low-tension switching equipment for this unit being loaned to the Commission by the Company.

The 1,500 k.v.a. transformer was ultimately put in service on May 25th, without making any changes in connections or switching which, however, will be proceeded with early in 1922. This installation included reinforcing the main floor with additional steel, making connections to the city water mains and putting in a meter.

The extension to the building mentioned in last year's report was not found to be necessary and was not carried out.

Martintown Distributing Station

Originally it was intended to install at this point a standard, H.E.P.C., pole-type, 300 k.v.a. station without the brick meter-house, but owing to a re-arrangement in the serving of this vicinity, the station was placed at Apple Hill and a rural-class, 150 k.v.a. station installed at Martintown.

This station is supplied with power over the 26,400 volt line from Cornwall Transformer Station. It is designed for 44,000 volts, but for the present it will be operated at 26,400 volts.

The high-tension switching, manufactured by the Commission's Production and Service Department, consists of single-pole disconnecting-switches, fuses and choke-coils. The transformer was purchased from the Packard Electric Company and is a standard 150 k.v.a., 3 phase, 60 cycle, 44,000-26,400/4,160-2,400 volt, rural-class, outdoor transformer. This station supplies power to Lancaster as well as to Martintown, and was placed in service on May 25th, 1921. No station metering was installed, each town being metered separately.

Morrisburg Distributing Station

This station was dismantled after the power supply from it to Williamsburg was discontinued. Part of the equipment was used at Alexandria Distributing Station and the balance was placed in stores.

Williamsburg Distributing Station

This station was fully described in last year's report. It was placed in service on December 24th, 1920, and is supplied with power from Cornwall Transformer Station. It is designed for 44,000 volts, but for the present will be supplied at 26,400 volts. Williamsburg formerly received its supply of power from Morrisburg at 4,000 volts; it was disconnected from this source on the above date.

RIDEAU SYSTEM

HIGH FALLS GENERATING STATION

During the past year the voltage-regulator equipment was completed and placed in service. An air-compressor and piping has been installed and an extension has been made to the water-piping to have water available for fire protection. Spare generator coils have been purchased.

Balderson Distributing Station

To supply Lanark and the rural district between Balderson and Lanark with power, a rural-class station was installed at Balderson, on the side of the highway, directly under the high-tension line between High Falls and Perth. It was placed in service on September 29th, 1921.

The transformer was supplied by the Moloney Electric Company and is a 50 k.v.a., 44,000 volt unit with a reduced capacity of 30 k.v.a. at 26,400 volts. The high-tension switching was manufactured by the Commission's Production and Service Department and consists of single-pole disconnecting-switches, choke-coil and fuse all mounted on a common channel-iron base. Outdoor metering equipment measures the load and it is mounted on the first pole adjacent to the station. A Lincoln meter was installed. The low-tension arresters are mounted on the second pole from the station.

Carleton Place Distributing Station

In April the permanent meter installation was completed and ventilation was provided for the high-tension room.

Kemptville Distributing Station

This is a standard 3 phase, rural-class station installed on the highway directly under the high-tension line. Power is supplied to it over the 26,400 volt line from High Falls and Merrickville. It is expected that the station will be placed in service during November, 1921. The high-tension switching equipment was manufactured by the Commission's Production and Service Department, and consists of single-pole units. The transformer was supplied by the Packard Electric Company and is a standard, 150 k.v.a., 44,000-25,400/4,160-2,400 volt rural-class unit. The metering is done with standard outdoor equipment which is mounted on the pole adjacent to the station. The low-tension arresters are mounted on the second pole from the station and are standard equipment.

ALMONTE MUNICIPAL GENERATING STATION—"WYLIE PLANT"

Upon request of the municipality of Almonte, assistance is being given on the installation of a 200 k.v.a., 2,400 volt, Canadian General Electric, 3 phase, 60 cycle generator and switching equipment, which the municipality had purchased from Perth. The installation is to be made in the plant known as the

“Wylie Plant” and replaces a small direct-current machine. This plant is on the opposite side of the river from the present Municipal Station and the two stations are to be arranged to operate in parallel. This installation should be completed early in 1922.

THUNDER BAY SYSTEM

NIPIGON GENERATING STATION

In the two previous annual reports the station design, and a description of electrical and mechanical equipment and of the building were given. The station has since been built and placed in operation and the following is a brief outline of the progress of construction and installation.

Building Progress

The main control-conduits were laid in their respective positions and concrete was poured up to the generator-room floor-level (elevation 705') by October 9th, 1920.

The gate-house floor (elevation 748') was poured on October 19th, electrical conduits having been previously laid in position.

By October 20th, all of the steel crane columns had been erected on the generator-room floor and a number of trusses and purlins were in place.

The generator-room steel-work was completed on October 27th, and the crane-girders were placed in position.

On account of not being able to pour the walls of the generator-room for some time, it was necessary to erect temporary wooden walls around the north, south and east sides of the generator-room, as well as a temporary roof to protect the electrical apparatus, etc., about to be installed and stored on the main floor. These temporary walls served as inside form work for the pouring of concrete later. The temporary west wall was built in a substantial manner, and will remain until the building is extended at some future date.

On November 2nd the 75-ton Shaw travelling crane was placed in service. This made it possible for the turbines and the generator bed plates to be assembled and placed in position; the latter were finally aligned and grouted in on November 14th.

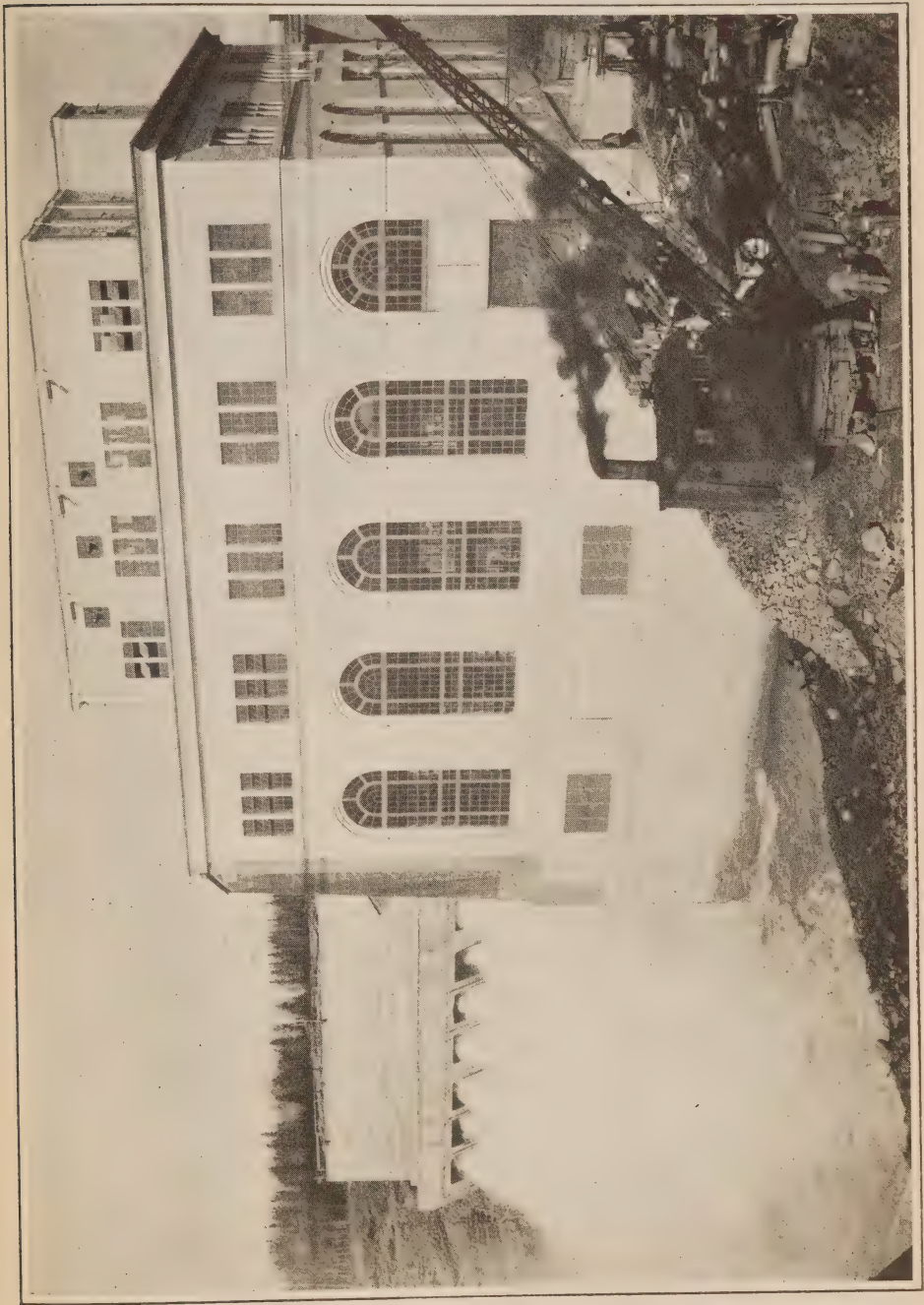
The erection of steel-work for switching-equipment rooms was started on November 1st, 1920, and completed on March 12th, 1921. The pouring of generator-room walls was started on December 4th, 1920, and completed on June 25th, 1921. The generator-room roof was completely poured by July 9th, and roofing was laid under supervision of the Barrett Roofing Company of Toronto.

The switching equipment room floors at elevations 717', 732' and 740' were poured by April 30th and the control room bay floors at elevations 716', 724', 740' and 752' by May 10th. The gatehouse walls were completed on June 25th and the pouring of the roof about the same date. The last of the window-sash supplied by the Trussed Concrete Steel Company was placed in position about June 25th, but glazing was not finished until October 1st.

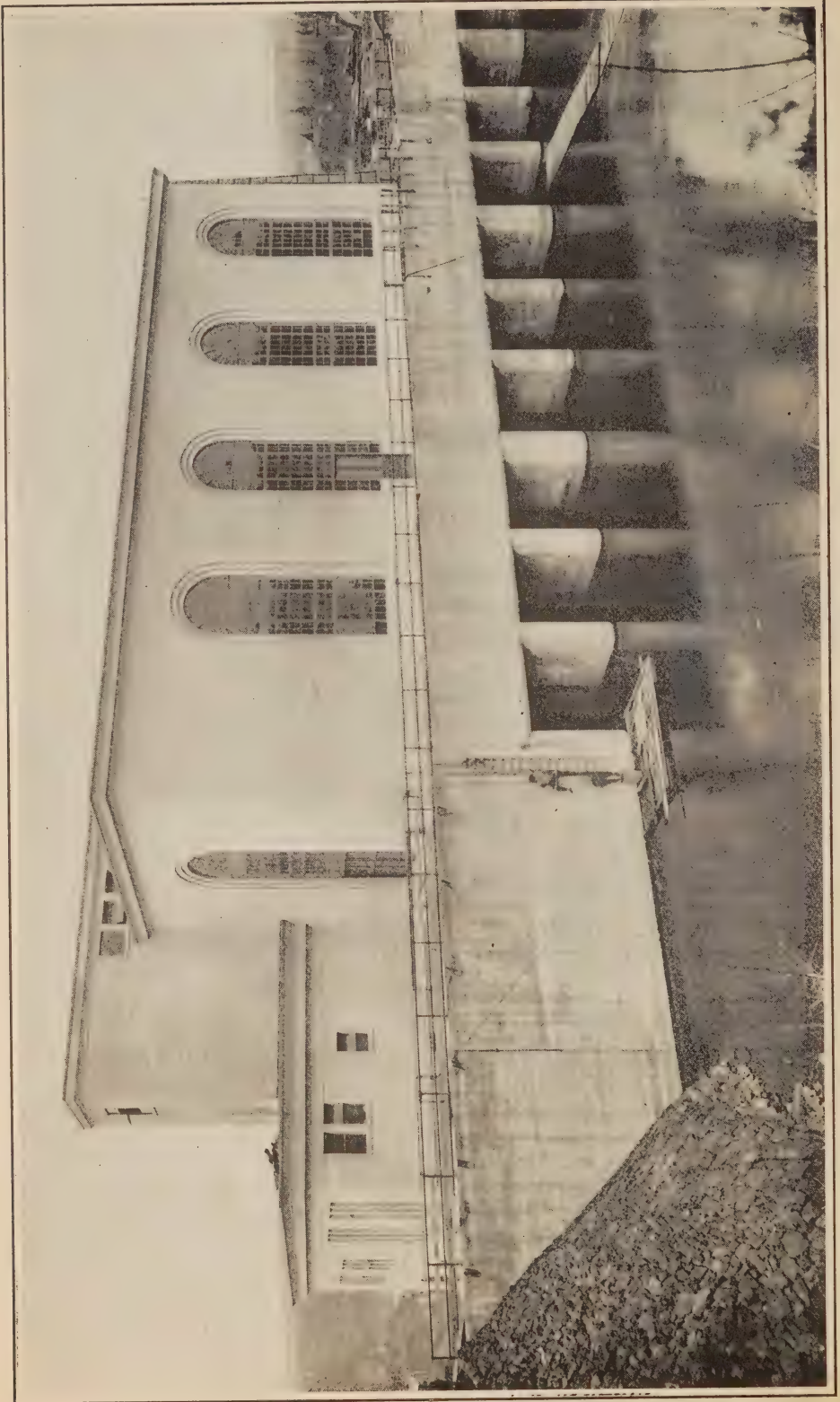
The progress of work in connection with the erection of the power house superstructure was expedited considerably by the unusually mild winter weather experienced, but was hampered to a certain extent by shortness of labor in the summer months.

Operators' Houses

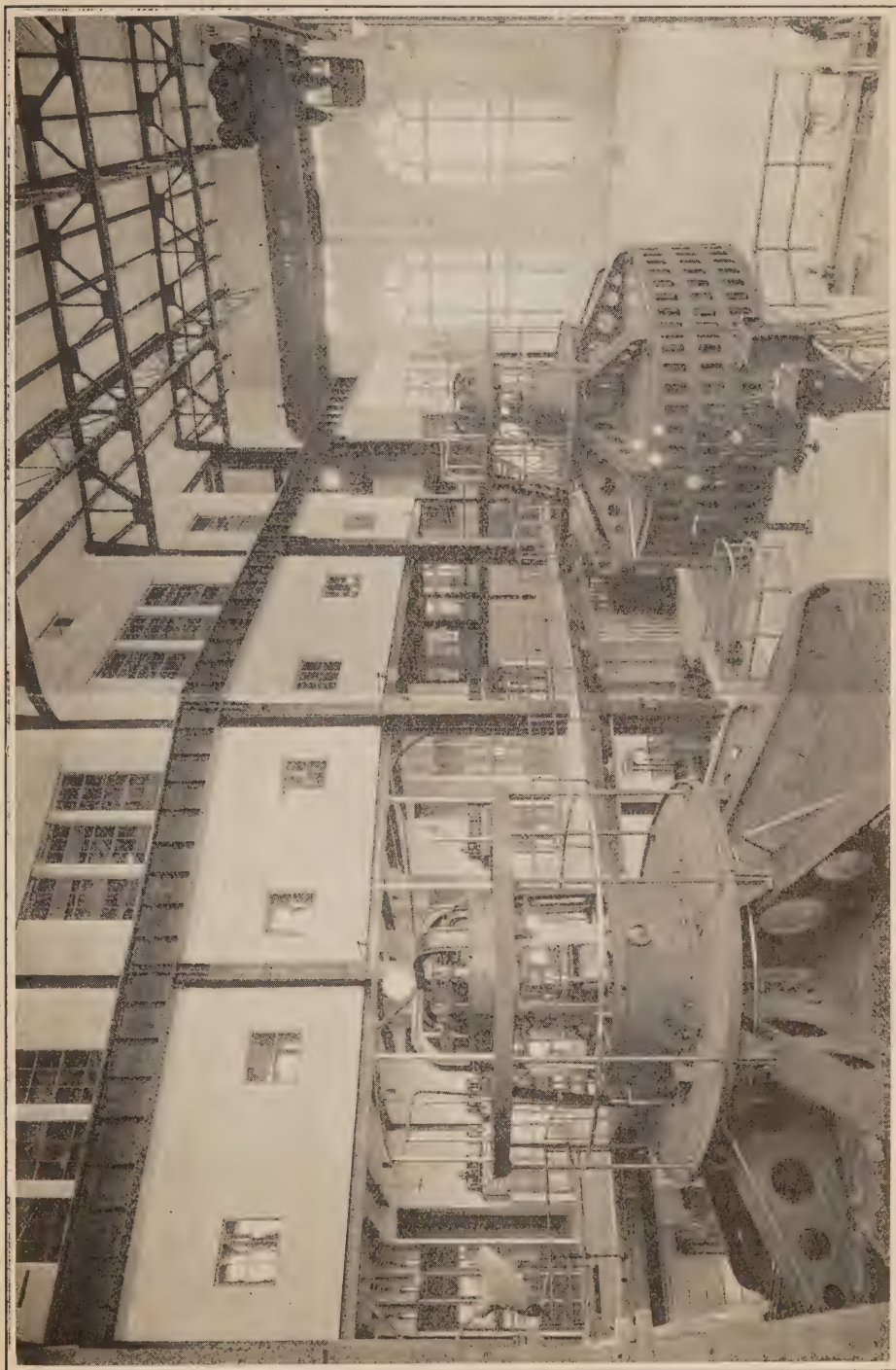
On May 20th an order was placed with the Canadian Aladdin Company for four detached houses (one 8 rooms, one 7 rooms, and two 6 rooms) and one pair of semi-detached houses (each 6 rooms). Three of the detached houses and the semi-detached houses have been erected by the Construction Depart-



Nipigon Power House from South. October 22nd, 1921



Nipigon Power House from North-West. October 22nd, 1921



Nipigon Power House: Generator Room from West End. October 22nd, 1921

ment of the Commission, being completed in September. The fourth detached house will be erected in the spring of 1922.

The houses are finished in "Stucco," with foundations of cement blocks.

Temporary Installation of Electrical Equipment

As mentioned in the 1920 report, it was found after careful consideration that power could be supplied to the City of Port Arthur by December 21st, 1920, the date on which the contract with the Kaministiquia Power Company for power for that city expired.

To do this it was necessary to complete the erection of one of the two 10,600 k.v.a. generator units and to install temporarily two of the four 8,000 k.v.a. transformers and necessary low-tension switching equipment on the generator-room floor. This temporary installation was completed about December 16th, and after being tested out, was placed in service at midnight, December 20th, when power was first supplied from this station to the City of Port Arthur.

Generators

Work was started by the Canadian Westinghouse Company on the erection of No. 2 generator on November 8th, 1920, and by working night as well as day shifts this unit was completed and placed in service on December 20th, 1920.

The erection of No. 1 generator meanwhile was carried on with all possible speed. It was not, however, till March 14th, 1921, that this unit was ready for service.

12,000 Volt Bus-Bars and Switching Equipment

Armoured, lead-covered, three-conductor cable was run from No. 2 generator over to a Canadian Westinghouse Company type "C" circuit-breaker and through it to a temporary 12,000 volt bus-bar of 500,000 C.M. cables; from this bus-bar leads were run to a second type "C" circuit-breaker, and thence to the low-tension terminals of the two 8,000 k.v.a. transformers.

Transformers

The above-mentioned two 8,000 k.v.a. transformers were placed on the main floor in the south-west corner of the generator-room and were connected up in open delta. to step up the power generated at 12,000 volts to 63,500 volts for transmission to Port Arthur.

Transmission Line Entrances

Entrances were cut through the temporary wooden west wall and three 110,000 volt, Ohio Brass Company, entrance bushings inserted. High-tension leads were run direct from the transformers to the transmission line, which at this time entered by these three temporary entrances.

Lightning Arresters

On account of the well-known prevalence of severe electrical storms in this part of the country in the spring it was deemed necessary to install lightning-arresters.

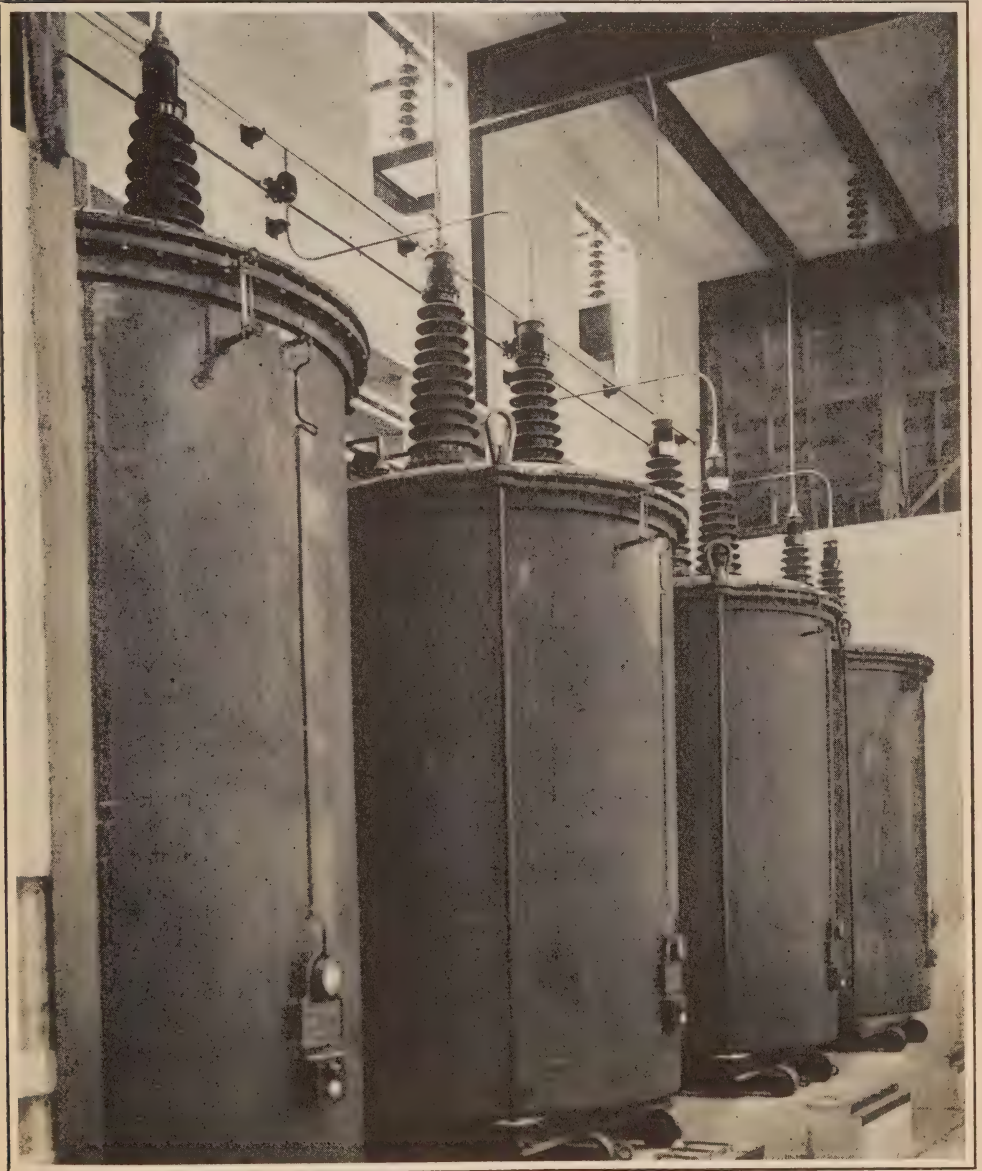
For this purpose a temporary wooden structure was erected on the west bank of the tail-race near the transmission line, to house one half of the Canadian General Electric Company Oxide Film Lightning-Arrester. This half section, comprising four stacks, was connected to the transmission line at a point about 200 yards from the temporary high-tension entrance bushings and was tested and placed in service on May 10th.

Station Service

For the station service supply, two 250 k.v.a. 13,200/2,300-575 volt Packard Electric Company transformers were placed in a temporary location on the main floor. These transformers were supplied from the temporary 12,000 volt

bus-bars through a type C circuit-breaker. The low-tension side of these transformers was connected through a Canadian Westinghouse Company type B2 circuit-breaker to the permanent 575 volt bus-bar, which had previously been erected.

From this bus-bar, 575 volt power was supplied to the two 125 h.p. governor-pump motors and to the 10 k.w., Crocker-Wheeler, motor-generator set installed for station control and for charging the 60 cell battery, supplied by the Canadian Hart Accumulator Company, and erected in a temporary location on the main floor.



Nipigon Power House: Transformer Room. October 22nd, 1921.

Control Board

A temporary control board with necessary controllers, meters, relays, etc., was erected in the centre of the main floor. The circuit-breakers were electrically operated but governors were controlled by hand.

Oiling and Cooling Systems

Temporary installations had to be made for the greater part of the lubricating-oil and water-cooling systems, including the oil and water-pumps. An improvisation, moreover, was made out of oil-drums to take the place of the gravity oil-tank ultimately to be installed.

Permanent Installation

By August 7th the installation of the permanent low-tension and high-tension switching equipment was practically completed, so that it was possible, by having an interruption on the system of twelve hours, to connect the generators to the permanent equipment, move the three 250 k.v.a. service transformers into permanent position and connect on to the two 8,000 k.v.a. transformers, which had previously been moved into permanent positions in the transformer-room. These two transformers were connected temporarily in open delta, giving 63,500 volts on the high-tension side. The transmission line was also disconnected on this date from the temporary high-tension line-entrances and connected to permanent entrances on the south wall of the high-tension room.

On August 9th the half section of the Canadian General Electric lightning-arrester which had been temporarily in service on the west bank of the tail race was dismantled, and the parts were taken over to the high-tension room in the power house where the arrester was erected in permanent position for 110,000 volt service. It was charged, tested and placed in service at that voltage on August 14th, 1921, when a second interruption was obtained on the system to connect in the third 8,000 k.v.a. transformer and make permanent low-tension and high-tension connections. Temporary connections were removed and permanent low-tension delta and high-tension star connections were made on this date giving 110,000 volts on the high-tension side, at which voltage power has since been transmitted to Port Arthur.

Port Arthur (Nipigon) Transformer Station

The temporary building referred to in the last report was completed about November 15th, 1920, and the work of installing the 4,000 k.v.a. transformers and switching equipment was commenced immediately. Three transformers, with all switching equipment required for the operation of the station were installed by December 20th, on which date, at midnight, the station was placed in service, feeding the City of Port Arthur, with the high-tension voltage at 63,500 volts. The fourth transformer was delivered and placed in the station in March, 1921. On May 15th the high-tension lightning-arrester was first placed in service, arranged for 63,500 volt operation.

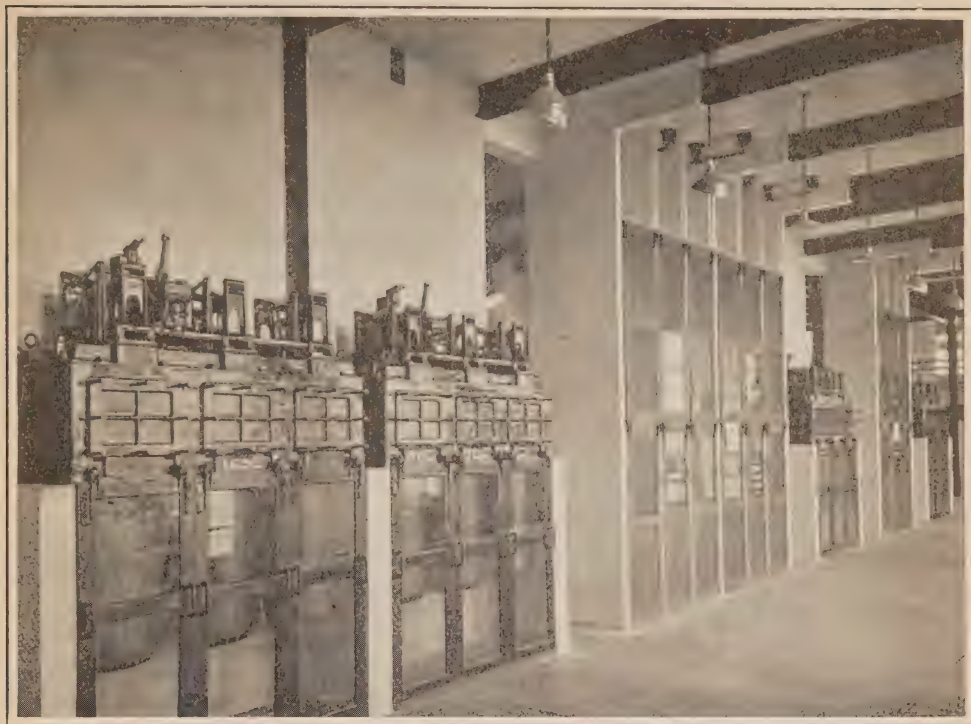
On August 14th the high-tension voltage was raised to 110,000 volts.

The erection of the building and the installation of all electrical equipment were carried out by the Construction Department of the Commission.

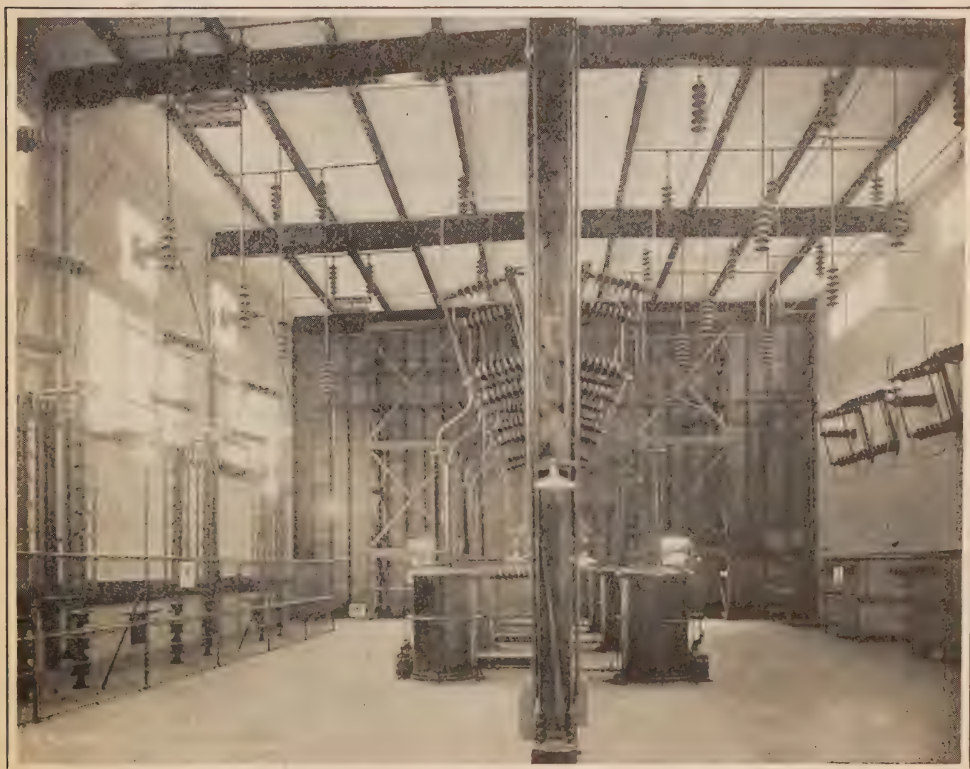
Nipigon Fibre and Paper Mills, Limited

In March, one of the Commission's engineers witnessed the tests on three 4,000 k.v.a. transformers ordered from the Canadian Westinghouse Company by the Nipigon Fibre and Paper Mills, Limited.

On April 26th, an order was placed with the Canadian Westinghouse Company for the switchboard panel and current and potential-transformers for the metering equipment. Two graphic wattmeters were purchased from



Nipigon Power House: Low Tension Circuit Breaker Room. October 22nd, 1921



Nipigon Power House: High Tension Switches and Lightning Arresters.
October 22nd, 1921

the Canadian Westinghouse Company, being supplied on a stock order previously placed by the Commission.

The metering equipment was completely installed and placed in service on August 1st.

CENTRAL ONTARIO SYSTEM

AUBURN GENERATING STATION

On October 5th an oxide film arrester was put into service on the Lakefield Woolen Mills feeder and additional horn-gaps were provided on one of the present electrolytic arresters so that it is now protecting two parallel lines to the Peterboro Distributing Station. The arresters formerly in use were removed from service. Work is in hand on the grounding of neutrals of the two 6,600 volt generators.

BELLEVILLE TRANSFORMER STATION

In May a time switch was installed on the street lighting feeder.

Belleville Portland Cement Distributing Station

Electric alarms were installed on the circuit breakers in May and on the transformer water-supply in October, 1921. An additional totalizing meter was installed in June.

Bowmanville Distributing Station

Electric alarms were installed on the circuit-breakers in June. A similar installation on the transformer water-supply is expected to be completed in November, 1921.

Chemical Products Company

The installation of standard metering equipment to measure the power supplied to this customer will be completed in November, 1921.

Deseronto Distributing Station

A time-switch is to be installed on the street-lighting feeder. This installation should be completed in November.

FRANKFORD GENERATING STATION

The 6,600 volt feeders were re-arranged and a cross-over was installed so as to facilitate inspection work on the circuit-breakers. Metering equipment to totalize the output of the station was installed, the work being completed in April.

HEALEY FALLS GENERATING STATION

The permanent switching equipment on the feeder supplying the Ontario Rock Company at Preneveau was completely installed and placed in service on May 4th, 1921. In April curbs were installed around the power-transformers, the high-tension lightning-arrester, and the circuit-breakers. A water still for the storage battery and totalizing metering equipment were installed during December in the station, and a water filter was installed during January, 1921, in one of the cottages.

Lakefield Distributing Station

The permanent switching equipment was completed on May 2nd, 1921. A description of this station was given in the preceding report.

Lindsay Distributing Station

A time-switch was installed on the street-lighting feeder during May and an electric alarm was placed on the water supply to the transformers in January, 1921.

Marmora Distributing Station

This pole-type station was fully described in the 1920 report. It was completed in May, 1921.

Napanee Distributing Station

A time-switch was installed on the street lighting feeder in May, 1921.

Nassau Dam

In October, 1921, temporary metering equipment was installed to measure the power supplied to Messrs. R. Sheehy and Son, contractors on the new government dam at this point. The Lakefield-Auburn 6,600 volt line was tapped here for power.

Norwood Distributing Station

This station, which was fully described in the preceding report, was placed in temporary service on January 12th, 1921, and was completed during May, 1921.

Oshawa Distributing Station

The installation of the second 1,500 k.v.a. transformer (a duplicate of the former one), mentioned in last year's report as having been purchased from the Canadian General Electric Company, was completed during July, 1921. Two new outgoing feeders were also completed at this time.

In the synchronous-condenser station the two small motors for starting the condenser were replaced by one 75 h.p. Lincoln motor installed during October.

PETERBOROUGH MUNICIPAL TRANSFORMER STATION

A new station was contemplated by the Utilities Commission and at its request preliminary plans and estimates were prepared for consideration.

In the existing street-railway sub-station a 37½ h.p. motor which was removed from Oshawa Condenser Station was installed on one of the D.C. generators for starting purposes. This work was completed in October, 1920, but mention of it was inadvertently omitted from the preceding Report.

Peterborough Hydraulic

Standard metering equipment was installed to measure the power supplied to us by this Company. This work also was completed in October, 1920.

Picton Distributing Station

Additional metering equipment has been provided as the load had increased sufficiently to warrant the installation in October, 1921, of a recording reactive-volt-ampere meter.

RANNEY FALLS GENERATING STATION

This station is being proceeded with and it is expected that power will be available in the Spring of 1922.

The plans have been revised since the last report was prepared and no provision is being made to accommodate equipment for future developments at power site at Dams No. 8 and No. 9, and the station equipment is completely indoors instead of having the transformers and high-tension switching outdoors as was at one time intended.

The two generators which were purchased from the Canadian General Electric Company are nearing completion. The two 4,500 k.v.a., 3 phase transformers are also of Canadian General Electric Company manufacture and are almost completed.

General plans were prepared for the superstructure which includes the screen house, which covers an area 105 feet by 83 feet and is 57 feet high.

The structural steel was purchased from the Dominion Bridge Company, which will complete the contract before January 1, 1922.

The cranes for the generator-room and the screen-house were purchased from the Dominion Bridge Company and are completed.

The large steel sash windows are in course of construction by the A. B. Ormsby Company, Limited.

The walls will be of concrete to the window sills while above this line they will be constructed of local stone with thin tile lining. Floors are to be of reinforced concrete.

Construction of this building superstructure should commence in November, 1921.

SIDNEY GENERATING STATION—DAM NO. 2

A brake of an experimental nature has been made up for one of the generators. It is expected that it will be installed early in 1922. A governor belt-tightener has been installed.

The barn located at this station was burnt down on November 14th, 1920, and is being replaced by a new one.

Stirling Municipal Station

Graphic metering equipment was installed in December, 1920, to measure the power supplied to this municipality.

NIPISSING SYSTEM

NIPISSING GENERATING STATION

The new 1,400 k.v.a., Canadian Westinghouse generator and three 900 k.v.a., Packard transformers mentioned in the last report as being purchased for the Nipissing Generating Station were installed by the Commission's Construction Department, the transformers in February, 1921, and the generator in September, 1921.

The original three 300 k.v.a. single-phase, 60 cycle, oil-insulated, water-cooled, 22,000/2,200 volt power-transformers replaced by the new Packard transformers, and the 450 k.w. Canadian Westinghouse generator are now stored outside the Generating Station pending removal to another station.

North Bay—Superintendent's Residence

Instructions were received in May, 1921, authorizing the purchase of a residence located at 50 Jane Street, North Bay, to be occupied by the Superintendent of the Nipissing System. This residence was acquired in June, 1921, and occupied in the same month.

TRANSFORMERS—TABLE No. 1

CAPACITIES OF TRANSFORMERS INSTALLED OR ORDERED FOR COMMISSION'S STATIONS AS OF OCTOBER 31st, 1921

Total Capacity, 1,043,386 k.v.a.

The following list includes spares, but does not include Station Service Transformers, nor Transformers owned by Municipalities in Municipal Stations or by the Commission's customers on the various systems.

Station	Voltage	Transformers Installed		Total Station Capacity	
		Manufacturer	Capacity		
Queenston-Chippawa Development					
25 Cycles					
Construction Stations					
Montrose Distributing Station	{ 12,000/4,000 12,000/4,000 12,000/550 12,000/440 12,000/4,000	C.C.W. Co. C.C.W. Co. C.G.E. Co. C.G.E. Co. C.C.W. Co.	1,500 b. 1,500 g. 3,000 c. 2,205 b. 1,500	8,205	
Whirlpool " " 	{ 12,000/4,000 12,000/440 4,000/575	C.G.E. Co. C.G.E. Co. M.E. Co.	4,500 3,310 2,400		
Queenston Transformer Station	12,000/110,000	C.W. Co.	225,000*		225,000
Total Capacity Queenston-Chippawa Development					244,915
Niagara System—25 Cycles					
(1) Niagara Transformer Station	{ 12,000/110,000 12,000/46,000	C.W. Co. C.G.E. Co.	167,000 35,000	202,000	
(2) Dundas " " 	110,000/13,200	C.G.E. Co.	17,500	17,500	
Caledonia Distributing Station . . .	13,200/2,300	P.T. Co.	450	450	
Hagersville " " 	{ 13,200/4,000 13,200/4,000	C.C.W. Co. C.W. Co.	450 a. 225	675	
Lynden " " 	13,200/4,000	C.W. Co.	225	225	
Waterdown " " 	13,200/2,300	C.C.W. Co.	225	225	
(3) Toronto Transformer Station	110,000/13,200	C.G.E. Co.	75,000	75,000	
(4) London " " 	110,000/13,200	C.G.E. Co.	17,500	17,500	
Ailsa Craig Distributing Station . .	13,200/4,000	C.W. Co.	225	225	
Delaware " " 	13,200/4,000	P.E. Co.	75	75	
Dorchester " " 	13,200/4,000	C.W. Co.	225	225	
Exeter " " 	13,200/4,000	C.G.E. Co.	300	300	
Lucan " " 	13,200/4,000	C.G.E. Co.	225	225	
(5) Guelph Transformer Station	110,000/13,200	C.G.E. Co.	5,000	5,000	
Acton Distributing Station	13,200/2,300	C.W. Co.	225	225	
Cheltenham " " 	13,200/575	C.G.E. Co.	225	225	
Elora " " 	13,200/4,000	C.W. Co.	225	225	
Fergus " " 	13,200/2,300	C.G.E. Co.	225	225	
Georgetown " " 	13,200/4,000	C.G.E. Co.	450	450	
Rockwood " " 	13,200/2,300	C.G.E. Co.	75	75	
(6) Preston Transformer Station	{ 110,000/13,200 110,000/6,600	C.G.E. Co. C.G.E. Co.	8,000 2,250	5,250	
South Waterloo Township Dist. Station	6,600/4,000	C.G.E. Co.	60	60	
(7) Kitchener Transformer Station	110,000/13,200	C.G.E. Co.	16,750	16,750	
Baden Distributing Station	13,200/4,000	C.C.W. Co.	450	450	
Elmira " " 	13,200/4,000	C.G.E. Co.	450	450	
New Hamburg " " 	13,200/2,200	P.E. Co.	225	225	
St. Jacobs " " 	13,200/575	M.E. Co.	75	75	

* On Order.

Note: For Subnotes a, b, etc., see end of table.

TRANSFORMERS—TABLE No. 1—Continued

Station	Voltage	Transformers Installed		Total Station Capacity
		Manufacturer	Capacity	
Niagara System—Continued			k.v.a.	k.,v.a.
(8) Stratford Transformer Station.....	110,000/26,400	C.W. Co.	5,000	5,000
Dublin Distributing Station.....	26,400/4,000	M.E. Co.	50	50
Harriston " "	26,400/4,000	C.G.E. Co.	225	225
Listowel " "	26,400/4,000	C.G.E. Co.	600	600
Milverton " "	26,400/4,000	C.G.E. Co.	225	225
Palmerston " "	26,400/4,000	C.G.E. Co.	225	225
Tavistock " "	26,400/575	C.C.W. Co.	225	225
(9) St. Marys Transformer Station....	110,000/13,200	C.G.E. Co.	3,000	3,000
St. Marys Cement Co. Dist. Sta...	{ 13,200/575	C.G.E. Co.	1,500	
	{ 13,200/575	P.E. Co.	450	1,950
(10) Woodstock Transformer Station...	110,000/13,200	C.G.E. Co.	6,000	6,000
Beachville Distributing Station..	13,200/2,300	C.G.E. Co.	225	225
Embrow " "	13,200/4,000	P.E. Co.	50	50
Norwich " "	13,200/2,300	P.E. Co.	225	225
(11) St. Thomas Transformer Station...	110,000/13,200	C.G.E. Co.	5,250	5,250
L. & P.S. Ry. Rotary Station in				
St. Thomas Transformer Sta...	13,200/920	C.W. Co.	1,665	1,665
Aylmer Distributing Station.....	13,200/4,000	C.G.E. Co.	150	150
Dutton " "	13,200/4,000	C.W. Co.	225	225
West Lorne " "	13,200/4,000	C.W. Co.	225	225
Port Stanley " "	13,200/2,300	C.G.E. Co.	300	300
(12) Brant Transformer Station.....	110,000/26,400	C.W. Co.	10,000	10,000
Ayr Distributing Station.....	26,400/4,000	C.G.E. Co.	225	225
Burford " "	26,400/4,000	M.E. Co.	75	75
Drumbo " "	26,400/4,000	C.G.E. Co.	225	225
St. George " "	220/4,000	C.C.W. Co.	150	150
Waterford " "	26,400/4,000	C.W. Co.	225	225
(13) Cooksville Transformer Station... {	110,000/13,200	C.G.E. Co.	5,000	
	13,200/2,300	P.E. Co.	1,050	6,050
Mimico Distributing Station.....	13,200/4,000	C.C.W. Co.	450	450
Port Credit " "	13,200/2,300	C.G.E. Co.	225	225
Streetsville " "	13,200/4,000	C.G.E. Co.	225	225
Woodbridge " "	13,200/4,000	C.G.E. Co.	225	225
(14) Kent Transformer Station.....	110,000/26,400	C.W. Co.	8,750	8,750
Blenheim Distributing Station...	26,400/4,000	C.W. Co.	225	225
Bothwell " "	26,400/4,000	C.W. Co.	225	225
Brigden " "	26,400/575	M.E. Co.	75	75
Dresden " "	26,400/4,000	C.W. Co.	225	225
Forest " "	26,400/2,300	C.C.W. Co.	225	225
Oil Springs " "	26,400/4,000	M.E. Co.	150	150
Petrolia " "	{ 26,400/4,000	P.E. Co.	900	
	{ 26,400/4,000	C.G.E. Co.	a. 450	450
Ridgetown " "	26,400/4,000	C.W. Co.	225	225
Thamesville " "	26,400/4,000	C.W. Co.	225	225
Tilbury " "	26,400/4,000	C.G.E. Co.	300	300
Wallaceburg " "	{ 26,400/4,000	C.G.E. Co.	450	
	{ 26,400/4,000	P.E. Co.	450	900
Watford " "	26,400/4,000	M.E. Co.	d.l. 50	50
(15) Essex Transformer Station.....	110,000/26,400	C.W. Co.	10,000	10,000
Amherstburg Distributing Station	26,400/4,000	P.E. Co.	300	300
Canard River " "	26,400/230	M.E. Co.	25	25
Can. Salt Co. " "	26,400/176	M.E. Co.	4,500	4,500
Cottam " "	26,400/230	M.E. Co.	25	25
Essex " "	26,400/2,300	P.E. Co.	l. 150	150
Harrow " "	26,400/2,300	M.E. Co.	75	75
Kingsville " "	26,400/4,000	C.W. Co.	225	225
Leamington " "	26,400/4,000	C.C.W. Co.	225	225

Note: For Subnotes a, b, etc., see end of table.

TRANSFORMERS—TABLE No. 1—Continued

Station	Voltage	Transformers Installed		Total Station Capacity
		Manufacturer	Capacity	
(16) York Transformer Station.....	110,000/13,200	C.G.E. Co.	k.v.a. 5,000	k.v.a. 5,000
Etobicoke Distributing Station...	{ 13,200/2,300 13,200/4,000 13,200/2,300	{ C.C.W. Co. C.C.W. Co. C.W. Co.	{ 1,500 1,500 1,500	4,500
Total Niagara System excluding reserve.....				426,150
Niagara System Reserve Equipment...	110,000/26,400	C.G.E. Co.	e. 115,000*	
	110,000/26,400	C.W. Co.	f. 45,000*	
	110,000/26,400	C.W. Co.	1,250	
	110,000/13,200	C.W. Co.	3,000	
	26,400/2,300	M.E. Co.	125	
	26,400/2,300	P.E. Co.	225	
	26,400/2,300	C.C.W. Co.	6,000	
	{ 13,200/2,300 13,200/2,300	{ M.E. Co. S. Co. of C.	{ 750 225	
Total Reserve Capacity.....				171,575
Total Capacity Niagara System including reserve.....				597,725
Severn System—60 Cycles				
Big Chute Generating Station.....	22,000/22,000	C.W. Co.	4,200	4,200
Alliston Distributing Station.....	22,400/4,000	P.E. Co.	225	225
Barrie " ".....	{ 22,000/2,300 22,000/2,300	{ C.G.E. Co. P.E. Co.	{ h. 700 h. 700	1,400
Beeton " ".....	22,400/4,000	M.E. Co.	75	75
Bradford " ".....	{ 22,000/575 575/2,300	{ C.G.E. Co. C.G.E. Co.	{ 75 45	120
Camp Borden " ".....	22,000/220	C.W. Co.	375	375
Coldwater " ".....	22,000/2,300	C.G.E. Co.	75	75
Collingwood " ".....	22,000/2,300	C.G.E. Co.	1,200	1,200
Cookstown " ".....	22,000/4,000	C.G.E. Co.	75	75
C.P.R. Port McNicoll Dist. Station..	22,000/575	C.G.E. Co.	1,500	1,500
Elmvale " ".....	22,000/2,300	C.W. Co.	225	225
Midland " ".....	22,000/2,300	M.E. Co.	900	900
Penetanguishene " ".....	22,000/2,200	C.C.W. Co.	600	600
Port McNicoll Dist. Station at C.P.R.	550/2,200	P.E. Co.	30	30
Stayner Distributing Station.....	22,000/4,000	C.W. Co.	300	300
Thornton " ".....	22,000/4,000	M.E. Co.	25	25
Tottenham " ".....	22,000/4,000	M.E. Co.	75	75
Victoria Harbor Distributing Station.	22,000/2,300	C.W. Co.	100	100
Waubashene " ".....	22,000/2,300	C.G.E. Co.	50	50
Severn System Reserve Equipment....	{ 22,000/2,300 22,000/2,300	{ C.G.E. Co. C.W. Co.	{ 75 120	195
Total Capacity Severn System including Reserve.....				11,715
Eugenia System—60 Cycles				
Eugenia Generating Station.....	4,000/22,000	C.W. Co.	5,400	5,400
Chatsworth Distributing Station....	22,000/4,000	C.G.E. Co.	75	75
Chesley " ".....	22,000/4,000	C.G.E. Co.	300	300
Dundalk " ".....	22,000/4,000	C.G.E. Co.	150	150
Durham " ".....	22,000/4,000	C.G.E. Co.	300	300
Durham Cement " ".....	22,000/2,300	C.G.E. Co.	1,200	1,200
Elmwood " ".....	22,000/4,000	M.E. Co.	50	50
Grand Valley " ".....	22,000/4,000	C.G.E. Co.	225	225
Hanover No. 1 " ".....	{ 22,000/4,000 22,000/2,300	{ P.E. Co. P.E. Co.	{ 1,500 750	2,250

* On Order

Note: For Subnotes a, b, etc., see end of table.

TRANSFORMERS—TABLE No. 1—Continued

Station	Voltage	Transformers Installed		Total Station Capacity
		Manufacturer	Capacity	
Eugenia System—Continued			k.v.a.	k.v.a.
Holyrood Distributing Station.....	23,000/2,200	C.W. Co.	300	300
Kilsyth " " 	22,000/4,000	M.E. Co.	75	75
Kincardine " " 	22,000/2,200	C.W. Co.	375	375
Mount Forest " " 	22,000/4,000	C.G.E. Co.	300	300
Orangeville " " 	22,000/4,000	G.E. Co.	300	300
Owen Sound " " 	22,000/2,300	C.W. Co.	1,650	1,650
Priceville " " 	22,000/2,200	G.E. Co.	20	20
Shelburne " " 	22,000/4,000	M.E. Co.	150	150
Teeswater " " 	22,000/2,200	C.G.E. Co.	150	150
Walkerton Quarry " 	22,000/2,300	M.E. Co.	450	450
Wingham " " 	22,000/2,300	C.G. E. Co.	750	750
Eugenia System Reserve Equipment....	22,000/4,000	C.G.E. Co.	150	150
Total Capacity Eugenia System (including Reserve).....				14,620
Wasdells System—60 Cycles				
Wasdells Falls Generating Station.....	2,300/22,000	C.W. Co.	1,050	1,050
Beaverton Distributing Station.....	22,000/4,000	C.W. Co.	300	300
Cannington " " 	22,000/4,000	C.W. Co.	300	300
Kirkfield " " 	22,000/4,000	P.E. Co.	225	
	4,000/550	M.E. Co.	30	255
Total Capacity Wasdells System				1,905
Muskoka System—60 Cycles				
South Falls Generating Station.....	6,600/22,000	C.G.E. Co.	1,200	1,200
Huntsville Distributing Station.....	22,000/2,300	C.G.E. Co.	900	900
Total Capacity Muskoka System.....				2,100
St. Lawrence System—60 Cycles				
Cornwall Transformer Station.....	110,000/26,400	C.G.E. Co.	5,000	
	110,000/26,400	C.G.E. Co.	20,000*	25,000
Alexandria Distributing Station.....	26,400/4,160	P.E. Co.	k. 300	300
Apple Hill " " 	26,400/4,160	P.E. Co.	k. 300	300
Brockville " " 	26,400/2,300	C.G.E. Co.	k. 1,500	1,500
Cornwall, Toronto Paper Co. " " 	26,400/600	C.G.E. Co.	k. 2,250	2,250
Chesterville " " 	26,400/4,160	C.G.E. Co.	k. 300	300
Martintown " " 	26,400/4,160	P.E. Co.	l. 150	150
Prescott " " 	26,400/2,300	C.G.E. Co.	450	450
Williamsburg " " 	26,400/2,400	M.E. Co.	j. 50	50
Winchester " " 	26,400/2,300	C. G. E Co.	150	150
St. Lawrence System Reserve Equipment	26,400/2,400	C.G.E. Co.	k. 750	750
Total Capacity St. Lawrence System..				31,200
Rideau System—60 Cycles				
High Falls Generating Station.....	4,160/25,400	P.E. Co.	2,250	2,250
Balderson Distributing Station.....	26,400/2,400	M.E. Co.	i. 30	30
Carleton Place " " 	26,400/2,200	P.T. Co.	750	750
Kemptville " " 	25,400/4,160	P.E. Co.	k.l. 150	150
Merrickville " " 	25,400/600	C.G.E. Co.	750	750
Perth " " 	26,400/2,300	C.G.E. Co.	600	600
Smith's Falls " " 	25,400/2,400	C.G.E. Co.	750	750
Total Capacity Rideau System.....				5,280

*On Order.

Note: For Subnotes a, b, etc., see end of table.

TRANSFORMERS—TABLE No. 1—Continued

Station	Voltage	Transformers Installed		Total Station Capacity
		Manufacturer	Capacity	
Thunder Bay System—60 Cycles				
Nipigon Generating Station.....	12,000/63,500	C.G.E. Co.	k.v.a.	k.v.a.
Port Arthur (Nipigon) Transformer Station.....	63,500/22,000	C.G.E. Co.	32,000	32,000
Port Arthur Distributing Station.....	22,000/2,200	S. Co. of C.	16,000	16,000
			5,250	5,250
Total Capacity Thunder Bay System.....				53,250
Thorold System—25 Cycles				
Thorold Distributing Station.....	12,000/2,300	C.C.W.Co.	2,001	2,001
Total Capacity Thorold System.....				2,001
Central Ontario System—60 Cycles				
Fenelon Falls Generating Station.....	2,400/44,000	C.G.E. Co.	750	
	600/11,000	C.G.E. Co.	945	1,695
Healey Falls " ".....	6,600/44,000	C.W. Co.	11,250	11,250
Ranney Falls " ".....	44,000/6,600	C.G.E. Co.	9,000*	9,000
Seymour " ".....	2,400/44,000	C.W. Co.	4,500	4,500
Sidney Terminal Station.....	6,600/44,000	C.W.Co.	9,000	9,000
Auburn Transformer Station.....	6,600/44,000	C.G.E. Co.	3,750	
	2,400/6,600	C.G.E. Co.	600	4,350
Belleville Transformer Station.....	44,000/2,400	C.G.E. Co.	2,250	2,250
Belleville Cement Co. " ".....	44,000/600	C.G.E. Co.	2,250	2,250
Bowmanville " ".....	44,000/2,400	C.G.E. Co.	1,500	1,500
Brighton " ".....	44,000/2,400	C.G.E. Co.	300	300
Campbellford Northumberland Pulp Mill.....	44,000/2,400	C.W. Co.	2,250	2,250
Cobourg Transformer Station.....	44,000/2,400	C.G.E. Co.	600	600
Colborne " ".....	44,000/2,400	C.G.E. Co.	100	100
Deloro " ".....	44,000/600	C.W.Co.	750	750
Deseronto " ".....	44,000/2,400	C.G.E. Co.	600	600
Kingston " ".....	44,000/2,400	C.G.E. Co.	2,250	2,250
Lakefield " ".....	6,600/4,160	P.E. Co.	225	225
Lehigh Cement " ".....	44,000/600	C.G.E. Co.	3,000	3,000
Lindsay " ".....	44,000/2,400	C.G.E. Co.	1,500	
	11,000/2,400	C.G.E. Co.	750	2,250
Madoc " ".....	44,000/4,160	C.G.E. Co.	900	900
Marmora " ".....	44,000/2,400	M.E. Co.	50	50
Millbrook " ".....	44,000/2,400	C.G.E. Co.	100	100
Napanee " ".....	44,000/2,400	C.G.E. Co.	600	600
Newcastle " ".....	44,000/2,400	C.G.E. Co.	100	100
Norwood " ".....	44,000/4,160	P.E. Co.	300	300
Omamee " ".....	44,000/2,400	M.E. Co.	120	120
Oshawa " ".....	44,000/4,160	C.G.E. Co.	5,250	5,250
Peterboro " ".....	6,600/2,400	C.G.E. Co.	3,000	3,000
Picton " ".....	44,000/2,400	C.G.E. Co.	300	300
Point Anne Quarries " ".....	44,000/600	C.G.E. Co.	600	600
Port Hope " ".....	44,000/2,400	C.G.E. Co.	480	1,050
Sulphide " ".....	44,000/4,160	C.C.W. Co.	1,050	480
Sulphide Nichols Chemical Co., Substation.....	2,200/220	C.G.E. Co.	225	225
Trenton Transformer Station.....	6,600/4,160	C.G.E. Co.	750	
	6,600/2,400	C.G.E. Co.	600	1,350
Wellington " ".....	44,000/4,160	C.G.E. Co.	300	300
System Spare.....	44,000/2,400	C.G.E. Co.	750	750
Total Capacity Central Ontario System.....				73,595

* On Order.

Note: For Subnotes a, b, etc., see end of table.

TRANSFORMERS—TABLE No. 1—Continued

Station	Voltage	Transformers	Installed	Total Station Capacity
		Manufacturer	Capacity	
Nipissing System—60 Cycles			k.v.a.	k.v.a.
Nipissing Generating Station	2,200/22,000	P.E. Co.	2,700	2,700
Callander Distributing Station	22,000/2,200	A.C.B. Ltd.	50	50
North Bay “ “ 	22,000/2,200	C.W. Co.	1,350	1,350
Powassan “ “ 	22,000/2,000	C.G.E. Co.	50	50
Nipissing System Reserve Equipment. .	22,000/2,200	C.W. Co.	900	900
Total Capacity Nipissing System including Reserve.				5,050
GRAND TOTAL—All Systems.				1,043,386

SUBNOTES : a. Not in service.

b. On rental from system reserve.

c. On rental from Aluminum Co. of America.

d. 50 k.v.a. will become spare on displacement by 150 k.v.a., whose purchase is contemplated.

e. 10,000 k.v.a. provisionally reserved for Kent T.S., 15,000 for Toronto T.S., 20,000 for London T.S., and 20,000 for Essex T.S.

f. 35,000 k.v.a. provisionally reserved for Hamilton T.S.

g. On rental from Toronto Hydro-Electric System.

h. 3 phase H.T. to 2 phase L.T. "Scott" connection.

i. Nameplate rating 50 k.v.a. at 44,000 Volts.

j. Originally 44,000 volt. unit rewound for 26,400 Volts.

k. 3 phase units good for 44,000 Volts Y.

l. Rural-class transformers.

TRANSFORMERS—TABLE No. 2

STATION TRANSFORMERS ORDERED FOR MUNICIPALITIES AND COMMISSION DURING FISCAL YEAR ENDING OCTOBER 31st, 1921

Total Capacity, 188,655 k.v.a.

Station	Voltage	Manufacturer	No.	Capacity of each	Total Capacity
Niagara System—25 Cycles					
				k.v.a.	k.v.a.
Reserve Equipment	{ 110,000/26,400 110,000/26,400 26,400/2,300	C.G.E. Co. C.W. Co. C.C.W. Co.	21 9 2	5,000 5,000 1,500	105,000 45,000 3,000
Essex Distributing Station	26,400/2,400	P.E. Co.	1 <i>l</i>	150	150
Watford " "	26,400/4,000	M.E. Co.	1 <i>l</i>	150	150
Petrolia " "	26,400/4,000	P.E. Co.	3	300	900
Stratford " "	26,400/2,300	C.G.E. Co.	1	750	750
Guelph " "	13,200/2,300	P.E. Co.	1	750	750
Hagersville " "	13,200/4,000	C.C.W. Co.	3	150	450
Stamford Township Municipal Station	12,000/2,300	P.E. Co.	3	300	900
Severn System—60 Cycles					
Barrie Distributing Station	22,000/2,300	P.E. Co.	2	350	700
Bradford " "	22,000/2,300	C.G.E. Co.	1	75	75
St. Lawrence System—60 Cycles					
Martintown Distributing Station	26,400/4,160	P.E. Co.	1 <i>l</i>	150	150
Cornwall Transformer Station	110,000/26,400	C.G.E. Co.	4	5,000	20,000
Rideau System—60 Cycles					
Balderson Distributing Station	26,400/2,400	M.E. Co.	1 <i>i</i>	30	30
Kemptville Distributing Station	26,400/4,160	P.E. Co.	1 <i>l</i>	150	150
Central Ontario System—60 Cycles					
Oshawa	44,000/4,160	C.G.E. Co.	1 <i>a</i>	1,500	1,500
Ranney Falls	44,000/6,600	C.G.E. Co.	1	4,500	9,000

a. Purchased last year—omitted from preceding report

i. Nameplate rating 50 k.v.a. at 44,000 volts.

l. Rural Class Transformers

SECTION V

POWER DEVELOPMENT—HYDRAULIC

INVESTIGATIONS AND SURVEYS

During the year all field work in connection with the St. Lawrence River investigation was carried to completion; studies with regard to methods of development have proceeded to such a point that the final report will be completed before the end of the year. A great volume of information and data has been collected which has necessitated an extended study and analysis to determine the most satisfactory method of development both as to power and navigation. The final report will be submitted to the International Joint Commission.

Studies with regard to the regimen of the Trent River are still in progress, a great deal of valuable information having been collected and put on record.

As in the past, surveys have been made on many smaller streams and the Commission has acted in an advisory capacity to many of the municipalities.

CONSTRUCTION

Queenston-Chippawa Development

For the first seven months of the year work on the Niagara Development was pushed with the utmost energy, both day and night shifts being employed. About the first of August, however, the night shift was discontinued and the work was carried forward at a more normal pace. The satisfactory progress made will, it is anticipated, enable the plant to deliver power before the end of the year.

The work on the intake section comprised the building of a cofferdam of steel sheet piling and earth fill, extending from the boulevard north to Hog Island. A crib cofferdam was placed to close the eastern channel into the Welland River. These dams enclosed a large area which was pumped out and kept unwatered in preparation for building the intake structure. The season being well advanced by the time the site was unwatered, it was deemed advisable to postpone the actual construction of the intake until next season, which would permit the work to be carried out in a more economical manner. In the meantime water to operate the plant will enter the Welland River through the north channel between Hog Island and the shore.

The concrete-lined rock section of the Canal will be completed early in December, after which the control gate, which is now erected, will be lowered and the small earth core separating the Canal from the Welland River at Montrose will be dredged out. This will allow the canal to fill above the control gate.

The program of canal construction is so arranged that the large shovels are each closely followed by a concrete lining and paving plant so that only a short interval will elapse between the final excavation and the completion of each section of the canal.

The dredge "Cyclone" which excavated the channel west of the Michigan Central Railroad from the Welland River to the canal, at Montrose, completed its work late in the summer and was returned to Toronto. The large,

combined Grand Trunk and Michigan Central Railroad reinforced concrete arch bridge was completed and trains are now operating over the finished structure.

The concrete lining of the section of the canal, 2,500 feet long, across the gorge adjacent to the Whirlpool was satisfactorily completed. In the previous two seasons the gorge had been entirely filled with rock from the canal excavations and this had come to a final settlement before it was re-excavated for the canal section.

The forebay excavation and walls are completed as well as the concrete diffuser at the junction of the Canal and forebay. This triangle-shaped structure was erected for the purpose of regaining the velocity head of the water coming from the Canal, and its dimensions were determined only after an involved study and a series of experiments.

The whole screen-house substructure, for nine units, extending across the lower end of the forebay, is completed. This heavy reinforced-concrete structure forms the moulded entrance to the penstocks and contains the sectional drop-gates for closing off each penstock, as well as the screens for clearing the water of all floating trash. An overflow ice-chute, provided with a motor-operated gate which can be lowered below the surface of the water, is being installed at the south end of the screen house and will be ready for service in December. The screen house superstructure for six units has been erected and is being provided with a temporary north end wall so that operation of the first five units may be carried on. The electric travelling crane for handling the gates and screens is in operation.

The material for five main penstocks and for the service penstock is on the ground and No. 1 is completely erected and ready for service. No. 2 and the service penstock are nearly finished and will be ready for use by the end of December. The erection of Nos. 3, 4, and 5 has been deferred until next spring as winter conditions render work on the cliff both dangerous and expensive. The excavation of the cliff face for six units has been completed and the construction of the reinforced-concrete escarpment structure for carrying the transmission line towers and a portion of the International Railway tracks is well under way.

The erection of the power-house structure and the installation of the main and auxiliary machinery has been pushed forward throughout the past year with the utmost vigor. The arrangement of the work in such a manner that erection of the substructure and superstructure could be carried on simultaneously with the installation of the hydraulic and electrical machinery required a very carefully worked out programme and the exercise of much forethought. The result has been very satisfactory in that No. 1 turbine and Johnson valve together with the heavy interconnecting section of penstock have all been completely erected, while the installation of the governor and auxiliary equipment has advanced to such a point that the unit will be ready for operation in December. The installation of No. 2 turbine with Johnson valve connections and auxiliary equipment has also been well advanced. Before the turbines left the works of the manufacturers they were subjected to a hydrostatic test of double the working pressure, which test in each case was witnessed and checked by a representative of the commission. The erection of the service bay of the power house, together with the installation of the two service turbines, Johnson valves, and connections to the service penstock has proceeded satisfactorily, so that operation can be started by the end of the calendar year. A high pressure filtration plant has been installed in the power house for providing water free from silt for use in the lignum-vitae bearings of the turbines and for the governor system. An emergency pressure system, duplicating the

regular governor pumping system, has been installed to insure continuity of service in the event of any failure in that part of the auxiliary equipment.

The excavation of the rock between the front of the power house and the Niagara River has been deferred until the present, as it forms a natural dam and protects the construction work from being flooded. Fortunately it has proved very tight and has required a minimum of pumping to allow all the power house work to be carried out "in the dry." This has not only permitted a high quality of foundation work to be done, but has afforded an unusually valuable opportunity to observe that the natural rock foundation was in every way fitted to support the heavy power house structure without any possibility of settlement. The removal of the rock barrier between the power house and the river for Units 1 and 2 will be done in December.

In conclusion, assurance can be given that the work on the Queenston-Chippawa development has been advanced to such a state that power can be delivered from the first unit before the end of the calendar year, and from the second unit a few weeks later.

Nipigon Development

During the last year work on the Nipigon Development has progressed steadily. The two 12,500 h.p. units which comprise the first portion of the installation were placed in service on Dec. 20th, 1920, and that same night took up the service of Port Arthur and Fort William. The power house was temporarily housed-in for the winter as the superstructure was not by any means complete. With the coming of better weather in the spring active work was again commenced on the steel and concrete construction of the superstructure; this has now been completed for the first installation of two units.

As the plant, by means of a temporary cofferdam, was put in operation on a lesser head than that for which it was designed, it was necessary during the year to expedite the construction of the permanent dam; this involved clearing the reservoir site up to contour 750 in order that the water impounded might be free from brush and debris.

The dam, which is of the concrete gravity type, is some 450 feet in overall length. It contains eight sluiceways 16 ft. in width surmounted by a deck equipped with a travelling electrically-operated winch for placing stop logs. The upper strata of rock on which the dam is founded were badly fissured and disintegrated so that it was necessary to excavate deep into the rock to secure a satisfactory foundation. The work progressed throughout the year without any set-backs and the dam will be completed before the end of November.

Ranney Falls Development

Work during the year has progressed rapidly on the new plant in course of construction at Ranney Falls, near Campbellford, on the Trent river. The excavation is now complete having amounted to some 28,000 yds. of solid rock. To permit concreting it was necessary to place a heavy bulkhead between the rock walls of the tailrace to shut off the river, the excavation being kept dry by means of pumping. Work has been proceeding rapidly, with the result that the power house substructure up to the floor level has been completed. A large part of the head works and the retaining walls along the sides of the forebay have also been completed. The two hydraulic turbines are on the ground and a start has been made on their installation. The plant will be in operation in the early summer of 1922.

Two units are being installed, each of 5,000 h.p. capacity operating at a speed of 120 r.p.m. under a head of 47 feet. The scroll cases for the turbines are formed in the concrete, thus saving the cost of large cast-iron sections. An intake structure provided with stop-logs was built at the time of the construction of the Trent Canal. The location of the whole power site is ideal from a

natural standpoint, the total overall length of the development from intake to tailrace outlet being only 500 feet. This has resulted in an economical construction-plant layout.

SURVEYS AND STORAGE STUDIES

St. Lawrence River

This study has involved the making of accurate contour surveys on both shores of the St. Lawrence river between Prescott and Cornwall; foundation explorations, including extensive boring in the vicinity of possible sites for dams; extensive sounding operations in the river itself; the gathering of special hydrometric data, including the making of a comprehensive and continuous study of the variations of water level, and, in fact, of the general hydrological conditions of the St. Lawrence river.

On the Canadian side of the river, the Commission's surveys are carried between Prescott and Lock 19 of the Cornwall canal. On the United States side, they extend from the State Hospital, opposite Chimney Island, to the intake of the Massena Power canal. Contours on the ground, and essential topographical features were determined. A complete survey was made of the villages of Farran's Point, Aultsville, Morrisburg, Iroquois, Waddington, and that part of Cardinal lying below elevation 250. Soundings of the river were secured at various governing points for the purpose of supplementing or verifying information already available. Special soundings were made, as well as rock drilling, in order to develop as fully as possible the subaqueous contours of the river between the lower end of Ogden Island and the head of Doran Island. Maps of the whole area covered by the surveys made during this year and the two previous years were prepared on scales of 2,000, 1,000 and 400 feet to the inch. Over fifty topographic sheets were required on the last named scale to cover the area surveyed; in addition to these, certain critical areas were mapped on a scale of 100 feet to the inch, and several maps were made up to show borings or special characteristics of the river or to collect on one sheet data of like nature for various parts of the river. Further office work involved complicated calculations to determine the various surface slopes of the river when the proposed power constructions and river improvements should be completed.

Trent River

Part No. 1 of the Trent River Storage Report was completed in March. It is, in great part, a study of the relations of power development to navigation and demonstrates the limitations of both.

It establishes the fact that the regimen of the Otonabee and Trent rivers can be adjusted so as to provide for the present, and probably also for the future, demands of navigation, while supplying the generating stations of the Central Ontario System with such stream flow as is necessary to meet their present generating capacity, due consideration being paid to characteristic load and power factors.

Crow River

A study is being made of the possibilities for storage on the Crow river, in order to determine the best means of ensuring that no interruptions to power will occur on the Central Ontario System at times when the stream flow is curtailed to maintain high navigation levels.

Seguin River

A report has been completed for the Municipality of Parry Sound on the storage possibilities of the Seguin river, and flooding in connection with same.

SECTION VI

MUNICIPAL WORK

NIAGARA SYSTEM

During the year engineering assistance in connection with the operation of their local systems was given to the following municipalities:—

Acton, Ailsa Craig, Ancaster, Aylmer, Barton Township, Beachville, Bolton, Brampton, Brantford, Brantford Township, Burford, Caledonia, Chip-pawa, Clinton, Dorchester, Drayton, Drumbo, Dublin, Dundas, Dunnville, Elmira, Elora, Etobicoke Township, Georgetown, Goderich, Granton, Grantham Township, Guelph, Hamilton, Listowel, London, Louth Township, Lynden, Merritton, Milton, Milverton, Moorefield, Niagara Falls, Niagara-on-the-Lake, Paris, Plattsville, Port Dalhousie, Port Colborne, Port Credit, Princeton, St. Catharines, St. George, St. Jacobs, Simcoe, Stamford Township, Tavistock, Thamesford, Thorold, Walkerville, Waterford, Wellesley, Welland, Windsor, Woodbridge.

SPECIAL

Special engineering assistance was given in the following municipalities.

Alvinston

Estimates were prepared and information supplied to the Municipality of Alvinston. Hydro By-laws were carried with large majorities, and work on the lines and distribution system commenced. Power will be supplied early in the new year.

Ancaster

Engineering assistance was given to the Municipality with regard to increasing the transformer capacity in West Hamilton to take care of additional load in that section.

Baden

In addition to general help given, the services of an expert lineman were secured to overhaul the distribution system generally and to maintain proper service.

Barton Township

A sub-division was made of the operating conditions in this Township with regard to apportioning the charges between the City of Hamilton and Barton Township. An investigation was made regarding further extension of the system.

Belle River

Estimates were made with regard to a line and station to feed the Village of Belle River and Belle River Rural Power District. Two meetings were held in Maidstone Township, one in Belle River and one in Rochester.

Blyth

The question of a supply of Hydro power for the Village of Blyth has been under consideration for some time. Early in the present year a further study of the district was made, including the Village of Brussels and the Ham-

let of Walton. Estimates were prepared, and the Municipalities were advised to delay action until they could be served in conjunction with the surrounding district in the rural power distributing scheme.

Brantford

Engineering assistance was given to the City of Brantford with regard to the issuing of \$125,000 additional debentures for the purpose of making extensions to their sub-station and distribution system to take care of the rapidly increasing load.

Brussels

See Blyth.

Chippawa

A special line was constructed for the Municipality of Chippawa to take care of the new bascule bridge which crosses the Welland River at that point.

Courtright

Estimates were prepared and submitted to the Council in Courtright, and Hydro By-laws will be voted on at the coming municipal election in 1922.

Dresden

Two 25 h.p. motors direct-connected to centrifugal pumps were installed in the waterworks plant, replacing a former steam plant.

Embro

Assistance was given to the Municipality in regard to the issue of additional debentures to the extent of \$1,300, approval being obtained from the Ontario Railway and Municipal Board.

Essex

To take care of increased load in this municipality the 75 k.v.a. transformer was replaced by one 150 k.v.a. transformer.

Fergus

Owing to increasing lighting loads it became necessary to improve portions of the distribution system, and engineering assistance was given in re-modelling such sections.

Ford City

A valuation was made of the distribution system in the Municipality and arrangements are being made to submit Hydro By-laws providing for the purchase of the system at the coming municipal elections.

Galt

Plans for a combined office and transformer building were submitted, and, after some revision, were approved by this Commission. The additional office space and station capacity are required to take care of the rapidly increasing business.

Hagersville

Engineering assistance was given to the Municipality of Hagersville in re-modelling and extending its distribution system to take care of a large quarry load, and of several other power consumers in that Municipality.

Harriston

The Local Commission has spent a considerable amount of money in extensions to supply new power customers, and early in the coming year additional debentures, for \$5,000, will be issued to provide new capital for this work.

Hespeler

To provide proper service to the present customers and to take care of future demands for appliances, the Local Commission decided to re-build the distribution system throughout the town. Engineering assistance was given and much of the work has been completed. Debentures to the extent of \$15,000 will be arranged for early in the coming year. The distribution station is also being overhauled to place it in a safe condition and to provide for a supply of 13,200 volt power from the Preston high-tension station in place of the present 6,600 volt power.

Kitchener

The new station at the corner of Breithaupt and Edward Street, known as Kitchener Sub No. 2, has been completed and arrangements are being made to double-circuit the 13,200 volt line feeding it. Changes in other lines supplying a 13,200 volt customer and Sub. No. 1 have been made or are under consideration. A considerable amount of work has been done on the local distribution system and plans for new ornamental street lighting on King Street have been prepared.

Leamington

To meet the demands of the growing load a complete new switchboard equipment has been installed.

Markham

Engineering advice was given to the Municipality in enlarging its system to provide for additional power loads.

Merlin

Estimates were prepared and information was supplied as to the cost of power and also as to the cost of a distribution system, and Hydro By-laws will be submitted at the coming municipal elections.

Mimico

The continued growth in this municipality necessitated further alterations in the secondary distribution system, and engineering assistance was given to the Municipality in connection with these changes, as well as in connection with the installation of a new street-lighting system on the Toronto and Hamilton Highway.

Mitchell

Changes have been made in the local sub-station and outside lines in order to discontinue the old 60 cycle service. Three 40 k.v.a. transformers have been installed in the station to take care of the lighting of the Town, with special equipment for voltage regulation. A section of the old Station has been remodelled into a satisfactory office and sales room.

Newbury

The distribution system in the Municipality was remodelled by the Construction Department of the Commission and put into service in April 1921.

New Hamburg

The general increase in load, particularly in appliances, and the poor power-factor under which the system had been operating, necessitated a general overhauling of the distribution system. Engineering assistance was given in connection with this work.

New Toronto

The increased water consumption and the advantages in case of fire that might be gained by having the electrically-driven pumps supplied by more

than one circuit from the transformer station rendered it advisable to build a second primary line between these two points over an entirely different route, and assistance was given to the Municipality in connection with the details of this new line and the route to be taken.

Niagara Falls

Engineering assistance was given to the Municipality of Niagara Falls re the issue of \$125,000 additional debentures for the purpose of erecting a new combined office and sub-station, and of reconstructing part of the system to take care of the rapidly increasing load.

Oil Springs

Estimates were prepared showing the cost of extension to the distribution system to supply all the oil wells operating by gas engine. This estimate for \$10,000 was approved by the Commission and sanctioned by the Railway Board, and debentures were issued. The extensions were completed so that this additional load was supplied by September 1st. Plans have been prepared and instructions issued to add 100 k.w. capacity to the station, and this will be done early in the coming year.

Palmerston

A growing domestic load has made it necessary to extend the distribution system. Plans have been prepared for these changes, and the estimated cost, amounting to \$5,000, will be provided for by additional debentures early next year.

Paris

Assistance was given to this Municipality in changing the secondary distribution system to 220 volt, 3 wire, the better to take care of additional domestic loads. A new ornamental Street Lighting System was also constructed on Main Street.

Parkhill

During the year assistance was given to the System in regard to extensions to serve two additional power customers, as well as extra lighting consumers. Arrangements are being made to issue further debentures, to the amount of \$5,000, early in the coming year.

Petrolia

The sub-station capacity of Petrolia was increased to take care of additional loads, the three 150 k.v.a. transformers being replaced by three 300 k.v.a. transformers. A full report on the electrification of Petrolia waterworks was prepared for the Municipality.

Port Colborne

Assistance was given to the Municipality of Port Colborne with regard to remodelling its Distribution system.

During the year a power consumer, using approximately 150 h.p., was connected to the System.

Port Dover

A contract for Hydro-Electric power was signed by the Municipality of Port Dover, and, upon its request, a distribution system was constructed for the purpose of serving the residents of that Municipality and also for the lighting of the streets.

A 4,000 volt line from Simcoe to Port Dover was constructed to supply this Municipality.

Preston

The change in the voltage of supply, from 6,600 to 13,200, together with the increased demand, made it necessary to increase the capacity of the local station. Two banks of 170 k.v.a. transformers were replaced by three 750 k.v.a., three-phase, oil-insulated, water-cooled transformers. Ornamental street lights have been installed for four blocks on King Street. It is expected that this ornamental lighting will be extended the entire length of King Street during the coming year. A considerable amount of trouble has been experienced from poor regulation, and changes in the distribution system are being considered. It is planned to change from 2,200 to 4,000 volts.

Queenston

During the year a distribution system was installed in the municipality by our Construction Department, and general engineering assistance was given in connection with the operation of the local system.

Riverside

A report was made showing the value of the system in this Municipality and arrangements are being made to submit Hydro By-laws, providing for the purchase of the system, at the coming municipal elections.

Sarnia

The work of installing the additional 1,500 k.v.a. transformer in the Sarnia station, and the installation of a complete emergency bus-bar was completed, and the majority of the feeders were changed from overhead to underground.

Seaforth

Engineering assistance has been given the local Commission to improve their system to accommodate the increasing load. A considerable amount of work has been done on the distribution system and plans for additions during the coming year were prepared.

Scarboro Township

Engineering assistance was given to the Municipality in laying out many extensions, a considerable number of which were built during the year. Among these was an extension to serve a new Municipal waterworks plant with an initial load of 110 horsepower. Arrangements were also made for the issue of additional debentures, and for the submission of By-laws to provide for the taking over by the Township of all lines within its boundaries which are at present owned by the Provincial Commission.

Simcoe

Engineering assistance was given to the Municipality regarding the increase of the transformer capacity so that new power customers might be taken on.

Stratford

During the year the Public Utilities Commission purchased a suitable building, which is being remodelled for use as an office and Hydro shop. Additional transformer capacity and also additional regulator equipment are being arranged for. The distribution system is being remodelled to take care of a rapidly increasing load.

Stamford Township

A new sub-station was constructed for the Municipality of Stamford Township to take care of the rapidly increasing load in that section. Three new 300 k.v.a. transformers have been purchased for this Station.

St. Catharines

A new ornamental street lighting system was installed on St. Paul Street, and engineering assistance was given.

St. Marys

The addition of the second 750 k.v.a. transformer in the Station has been completed. Arrangements for the installation of a condenser to correct the power-factor are finished. The changes in the distribution system begun last year are almost completed.

St. Thomas

Engineering assistance was given to the local Commission re installation of additional feeders to take care of Waterworks and other special power loads. Advice was also given regarding the proper metering of power loads.

Tecumseh

A valuation of the System in this Municipality was made, and it is being arranged to submit Hydro By-laws providing for the purchase of the system at the coming municipal elections.

Thamesville

Assistance was given in connection with bringing the service to two new power customers.

Thedford

Estimates were prepared and information was supplied to the Municipality of Thedford; Hydro By-laws were carried with large majorities, and work on the lines and distribution system commenced; power will be supplied early in the new year.

Thorold

This Municipality was formerly supplied with power from the Ontario Power Company through the Commission's Thorold System, but during the year this contract expired and a contract was made with the Commission for power. Thorold became a Hydro Municipality at the first of the year.

Tilbury

Arrangements were made by the Municipality for the installation of a new waterworks plant, a 5 h.p. electric motor being used for domestic water supply and a 75 h.p. motor for fire purposes.

Toronto Township

There was a marked growth during the year in the number of lighting customers; and to meet this increase arrangements were made to change the primary lines from a 2,200 volt to a 4,000 volt "Y" system. Arrangements were also made for the submission of By-laws to provide for the taking over, by the Township, of all lines within its boundaries which are at present owned by the Provincial Commission.

Wallaceburg

Arrangements were made and work commenced on a 26,400 volt line extension to Wallaceburg to supply power to a large Sugar Company, the Company installing their own substation equipment, the capacity of which is 900 k.v.a.

Wardsville

Hydro "Enabling" and "Money" By-laws were passed during the year by large majorities. The line from Newbury Junction and a distribution system were installed by the Commission's Construction Department and Hydro power was supplied on June 16th, 1921.

Waterloo

The Municipality has recently completed the installation of additions to its substation. Plans are being prepared to increase the capacity of the distribution system.

Waterdown

Lines were extended in the Municipality to supply additional customers, and engineering assistance was given in this connection, as well as in connections with extensions to the lines outside the Village which are served by the Waterdown System.

Watford

The Municipality installed during the year a complete waterworks plant with one 3 and one 5 h.p. motor, for domestic purposes, operated by automatic control.

Welland

A line was constructed from the Municipality of Welland to a Quarry owned by the County of Welland. Engineering assistance was also given concerning additional power consumers in the City.

Weston

The increased power demands of customers resulted in overloading the primary lines, and in order to give increased capacity the system was changed from 2,200 to 4,000 volts.

Wheatley

Estimates were made with regard to the supply of power to the Village of Wheatley, and the question will be taken up further early in the coming year.

York Township

Numerous extensions were made to the Township System in the districts bordering Toronto and general supervision was maintained over these extensions.

NIAGARA SYSTEM—RURAL

Consequent on the passing of "The Rural Hydro-Electric Distribution Act, 1921," which came into force on June 1st, 1921, forty-three Rural Power Districts have been approved. Other districts covering the remainder of the entire Niagara System have been roughly mapped out and are being held until the contracts obtained make it possible to decide more definitely upon their boundaries.

As a result of one hundred and fifty-five rural meetings held in the above districts, for the purpose of explaining the method of obtaining power, the rates, the benefits, and the signing of contracts, over three thousand applications have been signed.

These applications will make possible the construction of two hundred and sixty-one miles of rural line, of which eighty-two miles of overhead and seventy-six miles of underground line have already been approved and on which construction has commenced. The remaining one hundred and three miles will be put forward for approval and construction as soon as final details can be arranged. Details of mileage are given below:—

Rural Power District.	Miles of Overhead.	Miles of Underground.
Chatham	17	...
Chippawa .....	..	8½
Dorchester	26	...
Dundas	3	3½
Galt	3	...

Lynden .....	..	51½
Niagara .....	..	3½
Ridgetown	18	55
Saltfleet	15	...
<hr/>		<hr/>
Total	82	76

SEVERN SYSTEM

General engineering assistance was given by the Commission to all the Municipalities comprising the Severn System in matters pertaining to operation, to application of rates, to the construction of extensions to serve additional customers, and to the solicitation of additional lighting and power customers. An analysis of the Operating Statements of the various local systems was also prepared for the purpose of checking existing rates and determining their revision. This assistance was rendered to the following municipalities:—Alliston, Barrie, Beeton, Bradford, Coldwater, Collingwood, Cookstown, Creemore, Elmvale, Midland, Penetanguishene, Port McNichol, Stayner, Thornton, Tottenham, Victoria Harbor, Waubauskene.

Port McNichol.

Arrangements were completed whereby the substation serving the Village was removed to the C.P.R. Elevator so that the entire load of the Village and Elevator combined is now being served from the one station. An additional line was constructed by the Village between the Elevator and the Local Distribution System, and assistance was given to the Local Officials in securing the approval of the Ontario Railway & Municipal Board to the Money By-law which provided funds for this extension. Considerable economy was effected by the change, which will greatly reduce the cost of power to the village.

SEVERN SYSTEM—RURAL

Following up the detailed surveys of various townships made during the year 1920 in response to petitions through the Township Councils for rural service, public meetings were held throughout the year at different locations to explain to prospective customers the advantages of rural power and the means and methods of obtaining them. Local committees were organized in the different townships and a canvass for customers made, a large number being secured. Considerable interest was manifested respecting rural service, and information was submitted to the Local Officials concerning Hydro-Electric service in the following townships:—Gwillimbury, W.; Tecumseth, Essa, Flos, Tiny, Tay, Tossorontio. Special work was performed in the other townships throughout Simcoe County, details of which are given elsewhere in this

Nottawasaga Township.

Several public meetings were held in this township at various times during the year at Duntroon and Nottawa, covering rural power service, and a canvass for customers resulted in securing 22 farm and 35 hamlet contracts in that section of the Township lying between Collingwood and Duntroon. An agreement was executed between the Commission and the Township covering rural power service and all arrangements for constructing approximately seven miles of transmission line were completed; it is expected that the work will be finished and that service will be given to the various customers early in the New Year.

Innisfil Township.

A great deal of active work was performed in this Township during the year in the nature of holding public meetings, organizing local committees,

and canvassing for customers, the result being that many farm contracts were secured and the prospects are that next year an extensive rural system will be constructed. There are possibilities of serving several power customers, to whom information has been given, as well as a large summer cottage district adjacent to the shores of Lake Simcoe.

Oro Township.

A great deal of interest was shown by farmers in this township in connection with Hydro service. Considerable activity was also manifested by the summer cottage residents along the shores of Lake Simcoe. Public meetings were held, estimates prepared, rates submitted and committees formed locally to follow this work with a canvass for contracts. The indications at the present time are that a System will probably be constructed in this township during the coming year.

Sunnidale Township.

Following up a large petition for Hydro service from the summer cottage district at Wasaga Beach, a public meeting was held to explain the details of service and submit rates and a canvass was made to secure contracts, 58 of which were obtained. Estimates are being prepared to ascertain the capital cost of constructing a transmission line to serve the district, which would obtain power from the Stayner substation. A canvass of the farmers in the vicinity of Stayner and along the route of the new line between Stayner and Wasaga Beach was also made, in order that the rural communities, in addition to the summer cottage district, might receive the benefits of Hydro service.

Vespra Township.

Pursuant to an urgent request for Hydro power from the farmers located along the Penetanguishene road, public meetings were held at Crown Hill and estimates were prepared and submitted; local committees were organized and an active campaign was carried on by the farmers in the district to secure Hydro-Electric service. All arrangements were completed for constructing lines and giving Hydro service as soon as the necessary contracts were executed.

EUGENIA SYSTEM

General assistance and engineering advice were rendered to the various towns and villages on the Eugenia System throughout the year, in respect to the application of rates, the installation of equipment on the premises of large power customers, extensions to the distributing systems for serving additional customers, and matters pertaining to routine operation. An analysis of the operating statements of the local system in each municipality was made up in order to ascertain the equity of rates charged for service and the amount of adjustment necessary in maintaining the principle of "service at cost." Assistance was also given to the municipalities in passing money by-laws for the purpose of financing improvements and extensions to the local system, and in securing their approval by the Ontario Railway & Municipal Board. The municipalities for which this service was performed are as follows:—Arthur, Chatsworth, Chesley, Dundalk, Durham, Elmwood, Flesherton, Grand Valley, Hanover, Holstein, Markdale, Mount Forest, Neustadt, Orangeville, Owen Sound, Shelburne, Tara, Teeswater, Wingham, Ripley, Lucknow, Kincardine.

Several new towns were added to the system during the year, details concerning which are given later in this report.

Neustadt

The construction of the transmission line between Hanover and Neustadt was completed during the year. This change was necessary to provide for

the increased demand for power in the municipality. The increase in load for the last month of 1921 in Neustadt over and above the corresponding period for 1920 was approximately 60 per cent. Assistance was given to the local officials in preparing money by-laws amounting to \$6,000, and in securing their approval by the Ontario Railway & Municipal Board. These additional funds were required to cover the capital cost of extensions and improvements to the Local Distribution System.

Hanover

Due to the increased demands for power, further extensions to the substation were found necessary. The building was enlarged and the equipment rearranged to suit the new conditions. Another circuit was added to the transmission line between Hanover and Durham. An extra telephone circuit was installed between Flesherton and Hanover to improve the operating conditions generally and the Hanover station was made the central switching point for outgoing lines to Chesley and the Bruce County district. The load during the last month of 1921 exceeded that of the corresponding period during the previous year by approximately 1,000 h.p. Assistance was given to the municipality in preparing a money by-law amounting to \$14,000 to finance the capital cost of extensions and improvements to the Local Distribution System. This by-law is to be submitted to the ratepayers at the next municipal elections. A 350 k.v.a. synchronous condenser was purchased and installed in the substation, with the assistance of the Commission, to bring about improved power-factor conditions.

Priceville

A distributing system, the construction of which was started during the previous year, was placed in operation during the current year. A substation was constructed and Hydro service given to this municipality for the first time on March 17th. Assistance was given to the municipality in securing an additional money by-law covering a debenture issue of \$1,000.

Durham

Assistance was given to the local officials in preparing a money by-law amounting to \$7,800 to finance extensions and improvements to the Distribution System for the purpose of supplying service to new lighting and power customers. Additional load was secured by the local system during the year, which greatly increased the power consumption, the total demand during the last month of the year being 512 h.p., whereas for the corresponding month during the previous year the total load in this town amounted to only 130 h.p. Changes were made in the local substation to take care of this additional load and new transformers were installed, increasing the capacity of the station by 100 per cent.

Teeswater

The construction of the distribution system, which was begun during the previous year, was completed during the current year, and Hydro service was given to this municipality for the first time on December 23rd. The new substation necessary for supplying power to the municipality was completed and placed in operation for the first time on December 20th. Assistance was given to the Local Commission in securing a large power customer, whose installation was connected to the system and to whom service was given during the year, bringing up the demand of the municipality close to the amount contracted for with the Commission.

Wingham

The new substation in this municipality was completed and Hydro power was delivered for the first time on December 21st.

The Local Distribution System was completely reconstructed during the year under the supervision, and with the assistance, of the Commission.

Assistance was given to the local officials in connection with the installation of a synchronous condenser for power-factor correction. Agreements were executed between the municipality and the Bell Telephone and G.N.W. Telegraph Companies covering joint use of poles on the main streets.

Ripley

A distribution system was constructed in this municipality and Hydro power was delivered for the first time in the month of January.

Assistance was given to the local officials in connection with securing a large power customer. The load in this municipality during the first year has exceeded the original amount contracted for.

Lucknow

The new distribution system in this municipality, which was begun during the past year, was completed during the current year and Hydro power was supplied on January 11th. Agreements were executed with the G.N.W. and Bell Telephone Companies covering joint use of poles on the Main Street of the Town. Assistance was given to the local officials in securing a large power customer. The load in this municipality during the first year has exceeded the original amount contracted for.

Kincardine

A distribution system was constructed in this municipality by the local officials with the assistance of the Commission, and Hydro power was delivered for the first time on March 16th. A new substation was constructed and placed in operation. Assistance was given to the local officials in planning to change the Water Works pumps from "steam" to "electric drive" and also in securing a large number of power customers.

Assistance was also given to the local officials in preparing an additional money by-law amounting to \$20,000 covering extensions and improvements to the local distribution system not provided for in the original money by-law. This by-law will be submitted to the ratepayers at the next municipal election.

Paisley

A valuation was made of the privately owned system in this municipality and assistance was given to the local officials in connection with the passing of enabling and money by-laws covering Hydro-Electric service. Details for the delivery of power to this municipality are not yet completed, but an effort will be made as soon as possible to arrange for the construction of suitable overhead lines.

Gorrie

A money by-law, which covered the cost of constructing a distribution system for Hydro-Electric service, was submitted to the ratepayers, and carried by a large majority. Arrangements are being made to deliver power to this municipality in connection with service to Howick Township.

Fordwich

A money by-law covering the cost of constructing a distribution system in this village in connection with Hydro service was submitted to the ratepayers and carried by a large majority. Arrangements are being made by the Commission to give service to this village through the rural lines in Howick Township.

Southampton

A public meeting was held in this municipality in connection with Hydro-Electric service. A valuation of the privately-owned plant serving the town was completed and full information was given regarding the connection of this development with the Eugenia System.

Port Elgin

A public meeting was held in this municipality in connection with Hydro-Electric service and a valuation of the property of the private company serving it was completed. A study was made concerning the best method of delivering Hydro power to the municipality.

EUGENIA SYSTEM—RURAL

Following up the detailed surveys made in various townships in the Eugenia District during the past year, a great deal of active work was performed in connection with submitting details concerning the securing of service, the preparation and submission of rates and estimates to the various townships, through public meetings held in many places.

Local committees were organized and a canvass was made to secure contracts, many of which were obtained. The various townships to which assistance was given were as follows:—Amaranth, Brant, Collingwood, Euphrasia, Holland, Howick, Kinloss.

Brant Township

Arrangements for constructing lines in this township to serve four farms in the vicinity of the Walkerton Quarry substation were completed. The construction work will be undertaken and service given early in the new year.

Howick Township

A great deal of active work was carried on in this Township in connection with giving Hydro service to farmers as well as supplying power to the municipalities of Wroxeter, Fordwich and Gorrie, approximately 48 farm contracts, and 73 hamlet contracts being obtained.

The indications are at the present time that in the early spring of next year the transmission line will be extended from Wingham, that a substation will be constructed at Wroxeter and that several miles of rural line will be built throughout the township to serve those who have already contracted for service.

WASDELLS SYSTEM

From time to time throughout the year there was rendered by the Commission to the various municipalities comprising the Wasdells System, assistance in the nature of engineering advice pertaining to operating matters, to the application of rates, in explaining technical matters to lighting and power customers and in assisting the local officials to carry on the business of their distribution systems in the most efficient manner. An analysis of operating reports of the various towns was made to determine the equity of the rates for different classes of service and the amount of refund due to the various corporations in connection with the supply of municipal power for water-works and street-lighting systems. The municipalities to which this service was rendered are as follows:—Beaverton, Breechin, Cannington, Sunderland and Woodville.

A further investigation was made in connection with the construction of new lines south of Cannington and Sunderland to supply power to the municipalities of Uxbridge and Port Perry and to give rural service to the various townships adjacent to these two municipalities.

WASDELLS SYSTEM—RURAL

Following up the receipt of petitions and general surveys made, during the previous year, of various townships in the Wasdells district, many public meetings were held in various townships to explain rates and the method of obtaining service. Local committees were formed and a canvass was started in the different townships to secure customers, with the result that a large number of contracts was obtained. This work is still proceeding and it is expected that during the coming year a sufficient number of contracts will be obtained to enable the construction of rural lines to be begun on a large scale. The townships for which this work was performed are as follows:—Brock, Eldon, Mariposa, Reach, and Scott.

North Orillia Township

Estimates were prepared and investigations were made in connection with supplying power to a large industry adjacent to Wasdells Development as well as to the Hamlet of Washago and complete information was submitted to the township officials in connection with this matter.

Morrison Township

Estimates were prepared, an investigation was made, and also rates were submitted in connection with supplying power to the hamlet of Severn Bridge and complete details were furnished to the local officials in connection with Hydro-Electric service.

MUSKOKA SYSTEM

Assistance in the nature of engineering advice covering the application of rates and general matters pertaining to the operation of the local distribution systems was given to both of the municipalities comprising this system. An analysis of operating statements of the two municipalities was prepared to determine the equity of rates for different classes of service and the amount of refund necessary in connection with supplying power for municipal purposes.

Gravenhurst

Assistance was given the local officials in connection with executing a new agreement for the Gravenhurst Sanitarium whereby the entire supply of power to this institution would be placed on a more satisfactory basis.

ST. LAWRENCE SYSTEM

The demand for power on this System is rapidly increasing, chiefly on account of new industries which are contracting with the Commission for their supply. Several small municipalities have been added to the System during the year, and an existing paper industry has made extensive additions to its plant, and considerably increased the quantity of power. Further extensions are being made by this company, and an increase in load is anticipated in the coming year.

The Commission has been conducting negotiations with a copper rolling mill industry which proposes to locate at Brockville. This industry will start operation in all probability next year, and will receive its supply of power direct from the Commission. The plant will initially require 1100 h.p., and will necessitate a change in the transmission voltage of the system, in order to deliver the power satisfactorily.

Considering the industrial depression universally prevalent during the year, the system has been remarkably fortunate in the increase of power, and there is every prospect of this increase continuing into the next fiscal year.

Alexandria

During the previous summer construction was undertaken on lines extending from Cornwall to Alexandria, and a station was erected to transform the power at the municipality. In January, 1921, power was turned on. The local plant was remodelled, and the old steam plant discarded. Several industries prepared to take electrical supply, but owing to industrial depression, the load was not as great as was anticipated.

The Commission has discarded the steam pumping equipment in the water-works plant, and a new electrically-driven pump has been installed. A new street lighting system was installed, the municipality now has Hydro service, and every effort is being made by the municipal officials to increase the use of electric power.

Apple Hill

The transmission line built to supply Alexandria passes through this village, and a station was erected to supply it with power. In April, 1921, the municipality received its first supply. The privately-owned plant supplying the village before Hydro was available, was purchased and remodelled.

Avonmore

This municipality was supplied with estimates, and the citizens were given permission to vote, in January, 1921, on obtaining a supply of power from the Commission. The by-law carried, but no action was taken on the question during the year, as there was some effort made to link up the rural supply with the municipality's needs. It is proposed to extend a low-voltage line from the transformer station in Apple Hill, and further effort will be made along these lines during the coming year.

Aultsville

The municipality voted on obtaining a supply of power from the Commission early in the year, and the by-laws were passed with a large majority. The municipality is situated near the high-tension line, and it is proposed to erect a small station to meet the needs of the village. This work will probably be carried on during the next year.

Brockville

The municipality has been putting forth effort to induce industries to locate there, and has systematically followed up prospective manufacturers in this connection. The chief aim is to increase the power requirements of the municipality, and receive the benefit by reduction in rates. The municipality has met with success, and is entering into an agreement with a large copper rolling mill to locate in the town. A number of smaller industries have also been established.

Casselman

The village received estimates from the Commission on a supply of power during the early part of the year, and in January voted favorably upon obtaining a supply from the Commission. Owing to its location, the cost of power to this municipality will be high, and the problem will require some study in order to determine the most economical way of supplying it. It is intended to link up the rural requirements with that of the village.

Chesterville

The municipality has slightly increased its load during the year, and a start has been made to supply the farmers from the transformer station in this municipality. A district has been formed, and growth is expected in the rural load.

Finch

This municipality considered estimates supplied by the Commission, and in January voted favorably upon the question of obtaining Hydro power. It is proposed to construct a low-voltage line from Chesterville to the municipality, and to link up the rural requirements with those of the village. No action has been taken in connection with the matter as yet.

Lancaster

The agreement between this Commission and the village having been signed in the previous year, the Commission proceeded to construct lines to serve the municipality, and, in May, power was turned on for the first time. This village is now experiencing its first use of electrical energy, and considerable growth in lighting requirements is anticipated. There is no power requirement of any consequence here at the present time.

Martintown

This municipality, although small, is located on the line between Cornwall and Alexandria, and had formerly signed an agreement with the Commission. A station was erected to supply this village, as well as the village of Lancaster, and power was turned on in May. The village is now receiving its first electrical supply for lighting purposes.

Maxville

This village made preparations early in the year to obtain a supply of power from the Cornwall-Alexandria line. A spur line was erected to reach the municipality, and it was originally proposed to build a station to transform the power in the municipality. However, it has been arranged to deliver the power temporarily from the station erected in Apple Hill, so that low-voltage power is delivered to the municipality at the present time from the Apple Hill station. The municipality unfortunately had a fire shortly after Hydro service was installed, a considerable portion of the business section was destroyed and a lot of electrical equipment, which cost the municipality about \$1,500 to replace, was burned.

Newington

Estimates were furnished to the village on the cost of supplying power from the St. Lawrence System by various methods. The scheme involved the linking up of rural service with that of the municipality, in order to reduce the cost. The municipality voted favorably upon the scheme in January. Since then no further action has been taken, but it is intended to extend lines from Chesterville through Finch.

St. Isadore de Prescott

This village also voted favorably upon the Hydro by-laws at the beginning of the year, after receiving estimates from the Commission. It is expected that service will be extended to the municipality after a station is erected in Maxville, and rural service will be linked up with the scheme.

Williamsburg

The Commission was notified by the municipality of Morrisburg that the power supply formerly delivered to Williamsburg was now required by Morrisburg, and that consequently a new supply of power would have to be obtained. The Commission found the only means of accomplishing this was to erect a transformer station in Williamsburg, and connect it to the high-tension line passing through the village to Winchester. Since December, 1920, the village has been obtaining power in this manner. The municipality is taking less power than in former years. It was intended to render a rural

service to the surrounding farming community from this station, but the townships have refrained from entering into the scheme.

Winchester Springs

The municipality carried on further negotiations with the Commission in an effort to get electric service. The amount of business in the village is small, and does not necessitate the erection of a transformer station. It was thought advisable to link the requirements of the village with rural needs and supply the power out of Williamsburg Station, but owing to the decision of the rural community not to enter the scheme, no further steps were taken to supply the village.

ST. LAWRENCE SYSTEM—RURAL

During the year exhaustive preliminary engineering work was carried on with a view to establishing rural power districts.

The following rural districts on the St. Lawrence System were approved during the year.

Alexandria District.—Covering Lancaster and Charlottenburg Townships in Glengarry County, and part of Cornwall Township in Stormont County.

Apple Hill District.—Covering part of Kenyon Township in Glengarry County, and part of Roxborough Township in Stormont County.

Maxville District.—Covering part of Kenyon Township in Glengarry County, part of Roxborough Township in Stormont County, parts of Caledonia and Plantagenet South Townships in Prescott County, and part of Cambridge Township in Russell County.

Chesterville District.—Covering Finch Township in Stormont County and part of Winchester Township in Dundas County.

Winchester District.—Covering part of Winchester Township and Mountain Township in Dundas County.

Williamsburg District.—Covering part of Williamsburg Township and part of Matilda Township in Dundas County.

Prescott District.—Covering parts of Edwardsburg and Augusta Township in Grenville County.

Brockville District.—Covering part of Augusta Township in Grenville County and part of Elizabethtown Township in Leeds County.

Athens District.—Covering part of Elizabethtown Township in Leeds County and part of Augusta Township in Grenville County.

Rates have been prepared and submitted to the councils of the Townships, in Townships from which petitions have been received.

Rural lines built out of Brockville have been in operation for the greater part of the year, and many additional services have been added in this district. An effort is being made to extend the line along the highway east of Brockville as far as the Hamlet of Maitland.

A line to supply rural residents in the Chesterville District has been in operation since April, 1921, and a distribution system is in course of construction to supply rural consumers in the Martintown District.

During the year public meetings were held in all the districts, except the Chesterville and Winchester Districts, and a representative of the Commission was present to explain the basis on which rural residents are served, and submit any further information required.

RIDEAU SYSTEM

In spite of the depression in industrial plants, the quantity of power delivered on the system increased during the year. The municipality of Kemptville voted in favor of Hydro, and construction of lines was undertaken during the summer, to supply it with power. The village of Lanark has also signed an agreement with the Commission, and was connected to the system during the year. The location of these municipalities, and the small quantity of power required by each, make the cost of power high, but both municipalities are anxious to receive service. The amount of power obtained from the Rideau Power Company was considerably restricted, owing to insufficient water supply. The major portion of the power was produced by the Commission's own plant at High Falls.

Smith's Falls

Practically all the industries in this municipality are now operated by Hydro-Electric power. In addition the use made of electrical appliances in homes is considerable and has required extensions to the local distribution system. Work in connection with the remodelling of this system has also been continued.

Carleton Place

The industries in this municipality have maintained their demand for power, in spite of the depression, and the municipality has increased its load during the year. The distribution system is being improved. The town is desirous of having a better street lighting system, and is removing the poles from the main street, in preparation for the new street lighting equipment.

Perth

The street lighting system in this municipality is being further improved, and additional lights are contemplated. The local commission continues to carry on a large business in electrical merchandising. The power requirements of the municipality show a steady increase, and a number of new lighting customers have been added to the system.

Lanark

Early in the year the municipality was furnished with estimates on the cost of power delivered from the Rideau System, and the cost of a plant to distribute power among its citizens. The municipality voted on the Hydro issue in January, and elected to obtain a supply from the Commission. Preparation was made by construction of lines and plant during the summer, and power was turned on in October. Although the cost of power is high, and rates are correspondingly high, nevertheless there exists a keen desire on the part of the citizens to receive service, and the municipality was fortunate in securing a greater number of customers than was expected. The municipality as a whole is greatly pleased with its success, and the future for Hydro is bright.

Kemptville

On January 1st the Village of Kemptville voted on the Hydro issue, and passed the By-law with a large majority. The municipality was dissatisfied with the existing service, and negotiations to purchase the plant of the existing Company were carried on, but without success. The Commission was then requested to construct a distribution system for the municipality, and this work proceeded concurrently with the construction of a line from Merriekville to supply the municipality with power. A transformer station is being erected at Kemptville, and it is expected that the Municipality will receive service in the near future. The Agricultural College, located at Kemptville, is

also preparing to take a supply of power from the System. Practically all of the citizens of the municipality are preparing to take service from Hydro.

THUNDER BAY SYSTEM

The new development at Cameron Falls on the Nipigon River was placed in operation for the first time during the year, and power was delivered to the City of Port Arthur therefrom after the expiration of the agreement with the Kaministiquia Power Company. The cities of Port Arthur and Fort William, as well as the village of Nipigon, were rendered assistance and engineering advice in connection with Hydro-Electric service, details of which follow.

Fort William

Although this municipality is not yet taking power from the Commission, it is under contract to do so at the expiration of the agreement with the Kaministiquia Power Company. An explanation of proposed rates was given to the local officials and a canvass was made to secure power customers to be supplied through the Commission until the municipality is in a position to take over their contracts. An explanation of rates and Hydro-Electric service was made to various power customers and proposed contracts were thoroughly explained. An investigation was made covering the route of proposed transmission lines on the City Streets to supply prospective power customers.

Nipigon Village

Estimates and rates were prepared covering service to the Village of Nipigon and all details in connection with Hydro-Electric service thoroughly explained to the Local Officials. Power was delivered for the first time in the month of May to the Nipigon Fibre and Paper Co., located at the Village of Nipigon, the load approximating 4,000 h.p. This company is proposing extensions to its Pulp Mill which will in all probability bring the demand during the coming year to approximately 8,000 h.p.

Port Arthur

Power was delivered to this municipality for the first time from the Cameron Falls Development on the Nipigon River at midnight December 20, 1920. Assistance was given to the local officials in connection with securing contracts with Pulp and Paper Companies; in connection with service to Grain Elevators; as well as in connection with the construction of a transmission line from the terminal station at Bear Point to the City substation at High Street. Negotiations with the municipality, covering the purchase of the High Street Substation from the Commission, were begun.

OTTAWA SYSTEM

Growth of business in Ottawa has necessitated the securing of additional power from the Ottawa and Hull Power Company. 1,000 h.p. additional were reserved under the agreement. This municipality is one of several in the Province having very low rates, with the result that the use made of electrical appliances in the homes is considerable. This is the chief cause of the increase in the amount of power required by the Municipality.

Nepean Rural Power District

The Township of Nepean contracted with the Commission during the year for a supply of power, and a district was formed including the whole township. Estimates were prepared and forwarded to the township officials. These estimates were considered favorable and a canvass was made to obtain contracts. The power is to be supplied by the City of Ottawa, and lines are being

constructed to supply the parties who have applied for power. Over one hundred contracts have been secured, and 18 miles of line are now under construction in the township. Power will be delivered during the next year to this district, and further extensions are anticipated.

CENTRAL ONTARIO SYSTEM

Oshawa

The Oshawa Railway Co., which obtains its power supply from the Commission, is installing a 500 k.w. synchronous motor-generator set. This will be in addition to the two 300 k.w. induction motor-generator sets installed some years ago.

Owing to increasing power load it has been necessary to rearrange the local power feeders and to install feeder circuits of increased capacity.

Gas Plant.—A number of small mains have been taken up and replaced by larger ones. Plans and estimates for extensive alterations and additions to the generating plant are being prepared, with a view to construction in the coming year.

Newcastle

Two miles of suburban lines have been constructed to serve a number of farms in the immediate vicinity of Newcastle.

Port Hope

The Municipal Water Works Board has installed a motor-driven turbine pump for domestic water supply.

Cobourg

Waterworks.—An extension of 2,500 feet of eight-inch main was laid to improve the water service to the factory section of the town.

Trenton

Estimates are being prepared for "White-Way" lighting in the business district.

Belleville

An extension of the business district "White-Way" lighting system has been completed.

Napanee

The street lighting system has been extended to light the back lanes in the business district.

Considerable extensions and improvements in the distribution system have been completed to take care of increased range load.

Gas Plant.—The Gas Plant operated by the Commission was closed down on August 31st.

Lindsay

The street lighting system has been extended to include the back lanes of the business district.

Peterboro

The Utilities Commission is now supplying a block of power to the Canadian General Electric Co.

Suburban extensions to supply service to residents in North Monaghan Township were completed.

Omeme

The Omeme Tannery Co. has been operating since June with a connected load of 160 h.p.

Norwood

The local lines were made alive January 12th. The lighting consumers have increased in number from 95 to 185, and power load amounting to 50 h.p. will be connected shortly.

Havelock

The local lines were made alive on January 13th.

Negotiations are under way with the C. P. Ry. for the supply of power to its shops.

Marmora

The local lines were made alive on December 14th, 1920, and the distribution system has now been completed.

CENTRAL ONTARIO SYSTEM—RURAL

Rates based on the provisions of the Rural Hydro-Electric Distribution Act were sent out to the following townships: Darlington, Clarke, Hope, Hamilton, Haldimand, Cramahe, Brighton, Sidney, Hallowell, Thurlow, Richmond, South Monaghan, Cavan, Manvers, Fenelon, Asphodel.

Public meetings were held in the following townships: Darlington, Hope, Hamilton, Sidney, Hallowell, Thurlow, Richmond, South Monaghan, Manvers, Ops.

At each public meeting the rates were explained and committees organized to canvass for contracts. Assistance in canvassing was given when requested.

NIPISSING SYSTEM

The extensions and alterations at the Development at South River supplying power to North Bay, Powassan and Callander were completed, and the new generator and the new bank of transformers were placed in operation. Various changes were made in the North Bay Distribution System to provide for increased demands of both lighting and power customers. The local office staff and Sales Room were moved to new quarters during the year, and arrangements were made for housing the entire staff at one central point for the purpose of improving the operating efficiency on the local system as well as to secure better sales quarters. The power load in this municipality has increased to such an extent that arrangements are being made for securing additional power at the development over and above the alterations and extensions already made.

NEW ONTARIO DISTRICT

Although no towns in this section of the Province other than those served by the Muskoka, Nipissing and Thunder Bay Systems, already reported upon, are under contract with the Commission, considerable assistance was given to various municipalities in the nature of solving their problems in connection with the distribution of light and power, and the work in the various municipalities, covered in last year's report, was followed up and settled to the satisfaction of the various municipalities concerned. The municipalities to which this assistance was given are as follows: Cochrane, Kenora, Mattawa, Parry Sound, South River and Sault Ste. Marie. The proposed Crown Lease covering development on the Abitibi River,—the Long Sault Rapids—and the proposed transmission line from this development to Timmins and South Porcupine was investigated and reported upon.

SECTION VII

GENERAL ACTIVITIES OF THE COMMISSION

ELECTRICAL INSPECTION

Previous reports have described in detail the general activities of the Electrical Inspection Department, and as the work in general does not vary to any great extent, it is unnecessary to enumerate again the routine work.

During the year the number of paid applications for the inspection of new wiring aggregated 84,352, while the number of inspections made was 160,873.

There has been a marked increase throughout the province in the use of current-consuming devices of all kinds, particularly electric ranges, the number of these installed this year being greatly in excess of other years. This, no doubt, is due in a large measure to the activities of local Commissions, many of whom have established merchandising departments and carry a full line of ranges and other appliances which they are prepared to sell and instal at very reasonable prices, thus encouraging their use.

With the contemplated extension of the Commission's lines, the present indications are that the Inspection Department will have a very busy year in the rural districts, as the farmers are taking advantage of "Hydro" power and are equipping their farms with modern electrically operated appliances.

Considerable time has been devoted to the inspection of old installations during the past year and this department has been successful in persuading many owners to have their wiring remodelled and overhauled, at an approximate cost of \$584,450. These necessary improvements eliminate the fire and life hazard associated, in many cases, with old and obsolete installations.

HYDRO-ELECTRIC RAILWAYS

Proposed New Railway Lines

No further surveys have been undertaken in connection with the proposed Railway lines, for the construction of which by-laws have been passed by the interested municipalities.

The compilation of new estimates and preparation of the large mass of other information requested by the Radial Railway Commission continued, during the past year, to involve a considerable amount of office work.

Essex District.

Late in the year—the Government having guaranteed the Commission's bonds to the extent of \$900,000—some extensive betterments to the system were proceeded with. These included the laying of new 60 lb. rail on rock ballast on Ottawa St., Ford City, from Strabane St. to the easterly city limits, and installing an interchange with the G.T.R., and double tracking of some 4,000 ft. of single track and sidings on Ouellette Ave. north of London St., and 3,200 ft. of single track on Wyandotte St. between Moy and Glengarry.

This new construction consists of 80 lb. 60 ft. rails, of standard section, on steel ties embedded in concrete, with pavement of the same material. At intersections 114 lb. rails of the grooved girder type on oak ties are used in conjunction with manganese steel special work, the pavement on these por-

tions of the work is of brick with a concrete roadbed. The excavation and concrete work is being carried on by contract, and the tracklaying, bonding and overhead work by day labour.

A single track loop is being installed around the block bounded by Sandwich, Ferry, Pitt and Ouellette Streets, with a view to eliminating the wyeing of cars at this point.

The whole of the above work is expected to be completed early in December, by which time it is hoped an order for 20 new one-man cars of the Brill double-door type will have been filled.

A resurvey of all property pertaining to the Essex District and the preparation of plans and profiles corresponding thereto has been in progress.

Guelph Radial Railway

In May, the Commission, at the request of the City of Guelph, took over the management of the Guelph Radial Railway. Subsequently, when it became apparent that the Government would not assume any financial or other responsibility in respect of the System, the Commission issued bonds to the extent of \$150,000 for the rehabilitation of the Guelph Radial. These bonds were secured by an issue of City of Guelph debentures of like amount.

In addition to other much needed betterments which have been undertaken, a contract was let on October 15th for excavation, concrete and paving in connection with the replacement of some 2,500 ft. of worn out track on Woolwich, Wyndham, Carden and Wilson Sts. by new construction of the same general standard as that employed on the Essex District. Arrangements have also been made to retire some obsolete equipment and substitute therefor 8 new one-man cars of the type ordered for the City of Windsor.

Peterborough Radial Railway

No extensions to this system have been undertaken during the year. In July, the three old C.P.R. crossings on George St. were replaced by one manganese and two built-up diamonds.

LABORATORIES DEPARTMENT

The past year has been notable by reason of the large increase in volume of work necessitated by the Queenston-Chippawa Power Development. This undertaking has affected all sections of the Laboratories, particularly the Engineering Materials, the High-Tension and the Photographic sections.

The work of inspecting cement, concrete materials, and steel for the generating station, for bridges, for concrete reinforcing and for penstocks, etc., devolved upon the Engineering Materials Laboratory. There was in addition a great volume of miscellaneous inspection. This work is described in greater detail below.

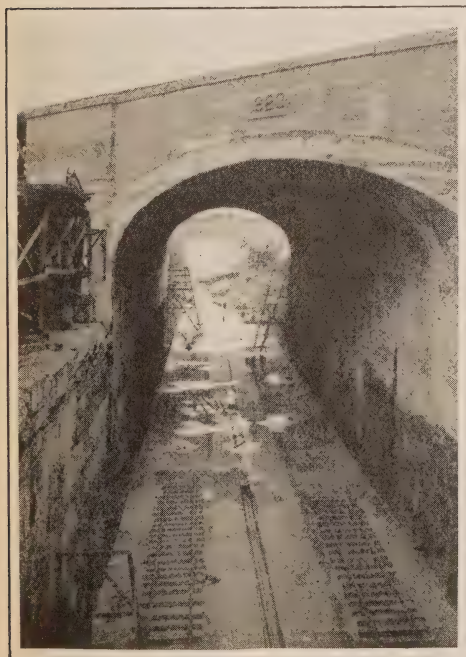
The High-Tension and Electrical Testing Laboratory was frequently called upon to render assistance to the Engineering Department in connection with the design of the Generating Station and the purchase of materials such as bus-bar insulators, generators, and transformers. This laboratory has also rendered assistance to, and is at present working in co-operation with, the Hydraulic Department, in efficiency tests on the power plants at Niagara Falls.

All sections of the Laboratories Department have done a considerable amount of commercial work, including calibration of meters, photometric tests, electrical tests on motors, transformers, etc.

No items of equipment of large size were added during the past year, but in many ways the equipment was made more efficient and more suitable for the purpose intended. In this work and in the construction of small pieces of necessary equipment, the laboratory workshop has been of value and effected



Chippawa Highway Bridge Closing, May 3, 1921



Michigan Central and Grand Trunk
Railways' Bridge over Chippawa-
Queenston Canal, Oct. 8, 1921



No. 1 Caisson, No. 2 Pier, 8 inches
from Rock. Michigan Central
Railway Bridge—Montrose.
Nov. 10, 1921

savings. One of these pieces of equipment is illustrated in this report.

Several technical articles have been prepared by various members of the staff for publication and a good deal of work has been done on Engineering Standards Committees in connection with the preparation of specifications.

High-Tension and Electrical Testing Laboratory

The activities of the High-Tension and Electrical Testing Laboratory have continued along the lines which have been described in previous reports and, in addition to the routine work, investigational work has been carried on which has resulted in advancing to some extent the boundaries of available knowledge in the engineering field.

In a general way, it may be said that this laboratory is able to undertake practical electrical tests, studies or investigations of almost any range. Tests which have become standard practice are systematized and treated as routine for economy of operation as well as for proper comparison of results. Frequently, however, special tests are required to clear up some doubtful phenomena.

Routine electrical tests are made on many classes of apparatus and materials. The various commercial tests are made on constant-potential and constant-current transformers, and on alternating and direct-current generators and motors, along the lines mentioned in previous reports with the added advantage of equipment especially suited for this class of work. The testing of oil for dielectric strength is a routine test, important not only because all the high-tension transformers and oil circuit-breakers are thus looked after, but also because approximately seventy samples per month are received from various municipal stations and new stations under construction. High-tension insulator investigation is also an important routine test, though its development and the various methods of line construction warrant its mention as a special line of investigation also. Apparatus is available from which any single-phase voltage up to 200,000 volts at 25 cycles or 400,000 volts at 60 cycles may be obtained, and a great deal of work is done at 110,000 volts and higher.

The monthly testing and inspection of linemen's rubber gloves, as outlined by the Committee on Accident Prevention, has become standard practice. These tests are made to ensure the safety of linemen and others who find it necessary to work on live apparatus, and record is kept of the life history of each glove used for this purpose. Considerable care is necessary in the selection of suitable gloves and exhaustive tests are made on samples of different makes and models.

Among the various classes of work done in a regular way are—the measurement of load distribution in mills and factories, checking the suitability of application of special electrical apparatus to various uses, inspection and testing of electrical equipment required by the Construction Department, and testing for manufacturers with a view to improvement in certain lines of their product.

Special problems have been studied and suitable tests made and reported on during the year, among which are the following:

Extensive tests have been made on the forces exerted between bus-bars. No published results of actual tests of these forces were available and a wide difference in the calculated values when using methods advocated by different authorities revealed the desirability of obtaining experimental evidence. Such data become indispensable when apparatus is being designed to meet the conditions imposed on modern heavy capacity equipment.

Special tests have also been made on the protective equipment installed in some of the high-tension stations to determine the advisability of simplifying

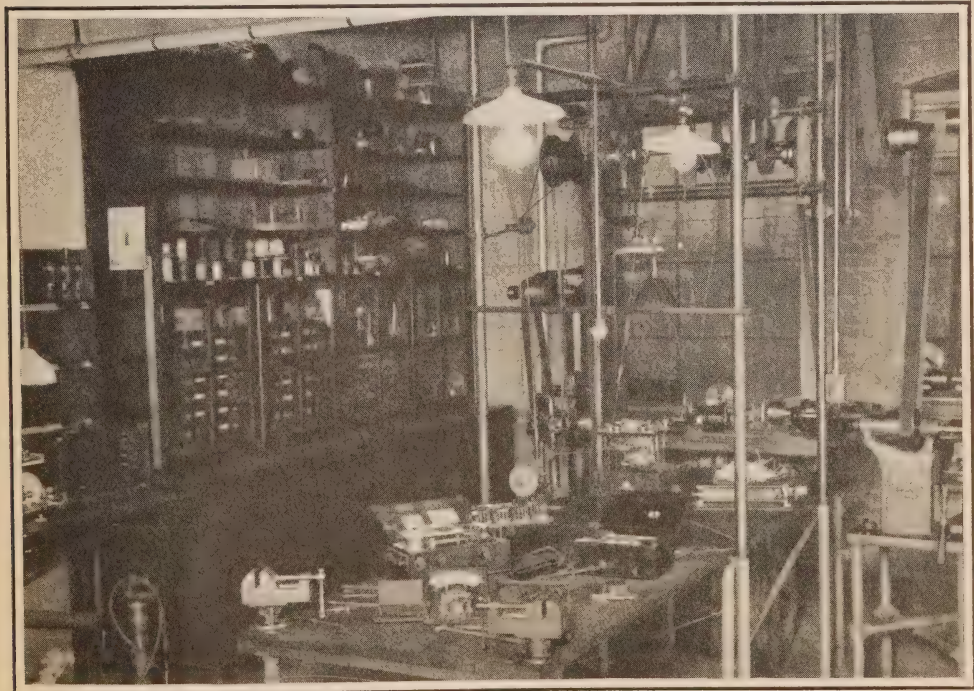
or otherwise modifying certain practices which have become fairly well standardized. The facilities available for making such tests on equipment in service make the results obtained of considerable value.

Approval Laboratory

Although the past year has been one of depression in the electrical manufacturing industry, many Canadian manufacturers have developed new lines and have added to present lines so that the work of the Approval Laboratory has steadily increased. In all 119 reports have been written during the year. The washing machine and vacuum cleaner lines have been examined and added to the approval list during this period. More attention is being paid to motor-driven devices of the self-contained type and it is proposed to add portable drills and fans to the approval list during the coming year.

Specifications have been prepared, with the assistance of sub-committees of the Approvals committee, for electric ranges, fixtures, portable appliances, farm lighting plants and for porcelain knobs, tubes and cleats, and it is hoped to have these authorized and in force during the early part of the year. In this connection it may be mentioned that at the request of the fixture manufacturers a meeting of those interested in the standardization of fixture outlet boxes was held and an endeavor made to reach an agreement as to type and size. The matter was referred to the Sub-Committee on Fixtures, but no definite result has yet been achieved as it was found practically impossible to reach an agreement satisfactory to all parties concerned.

During the year requests have been received for tests on enclosed switches of large capacity. To take care of this work arrangements are now under way with the local distributing system for space in one of their substations and power for applying such tests. Equipment has also been designed for this work. It is hoped to set up a fuse-testing station at the same time and for



Corner of Instrument Repair Shop in Laboratories

that reason plans have been prepared for installing both sets of equipment where storage battery and all the necessary alternating and direct-current voltages may be obtained without the addition of transformers or converters.

A close check has been kept upon the sale and distribution by jobbers and wholesalers, of unapproved electrical devices, fittings and material, with the result that such goods have been practically eliminated from the Ontario market. With the co-operation of the Electrical Inspection Department this work is being pushed, and it is hoped to devise a system of checking retail dealers' stocks occasionally in order to ensure that sub-standard devices are not being offered to the buying public.

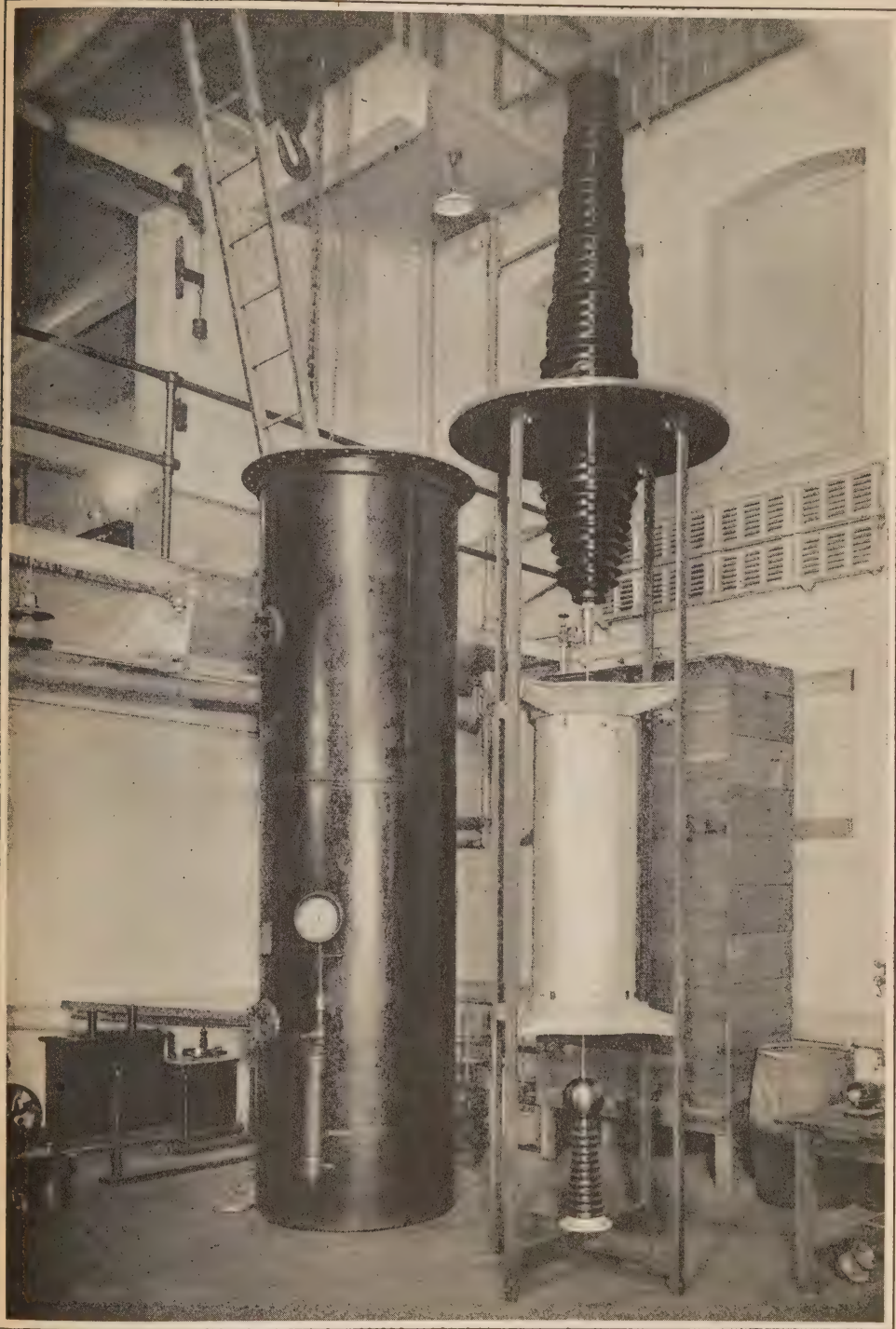
The re-examination of approved devices was carried on in accordance with the prescribed form of procedure, although not to the same extent as last year, on account of industrial conditions. A considerable decrease was observed in the number of labels supplied. A close check was kept on the quality of goods and materials being used, which work was greatly assisted by the co-operation of the Electrical Inspection Department.

Meter and Standards Laboratory

The relief of the power shortage conditions and the removal of the restrictions upon the sale of power throughout the province, with the consequent rapid increase in the number and magnitude of loads supplied, has reacted noticeably on the work of the Meter Section of the Laboratories; and this section has enjoyed a very active year in all phases of its work.

The most marked effect of the improvement is seen in the increased number of watt-hour meters and other metering devices which have passed through the testing and repair sections of this department. Many new meters from the factories have been sent to the Laboratories for Government inspection; and though, of course, but a small percentage of the total number of the meters used upon the Commission's system ever finds its way to the Toronto Laboratories, it may be assumed that this percentage remains reasonably constant from year to year, and thus serves to indicate the increased activity in loads so measured. The Meter Section has been particularly busy in the work of rehabilitating second-hand meters, mostly from systems where the frequency is being changed. These are taken over by the Commission and sent in to the Laboratories, where they are completely overhauled and readjusted, so that they will form saleable stock. On a similar basis it has been found possible to give a new lease of life to many old meters which have been lying in stores for some time because they were of ratings which, in the advance of the electrical industry, had been superseded. Among these may be mentioned a large accumulation of 5 ampere two-wire meters for which the demand had practically ceased, and which were daily becoming of less probable value. These were handed over to the Laboratories, where, at a comparatively small expense, they were rewound and re-rated at 10 amperes or other suitable ratings, so that they could at once be applied to fill an active demand. In fact, the call for second-hand meters has been of late such that they seldom find their way back to the storehouse shelves, but, on their delivery to stores, are immediately packed up and shipped out on waiting orders. In addition to the work done on second-hand meters for stock, small shipments are being continually sent in from municipalities for repair and adjustment, thus making possible a service which in the course of a year saves many useful meters from the scrap heap.

The work of checking and repairing indicating instruments, both those belonging to the Commission and to outside parties, has greatly increased, with the result that an almost continuous stream of volt-meters, ammeters and watt-meters has flowed through the Instrument Shop and Standards Room. Owners of metering devices are appreciating the advantages of having at hand a well-



Corona Voltmeter Used to Measure Very High Voltages. It consists of a straight rod mounted concentrically within a metal cylinder, and enclosed in an airtight tank (shown at the left). The voltage to be measured is applied between the rod and cylinder (which is grounded) and produces a "corona discharge" which is detected by means of a telephone. By varying the air pressure in the tank voltages up to 300,000 may be measured

equipped and reliable institution which can not only adjust but make complete repairs on practically any type of instrument which comes to hand. Besides the instruments mentioned above, work has been done on a large number of meggers, instrument transformers, bond testers and special electrical measuring devices.

The Commission's long-continued investigations upon the comparative theoretical merits of the various methods of determining demand have been, for the present, concluded, and a summary of the findings was published in the Annual Report for 1920. As an outcome of this investigation there has been carried out a study of the most practicable method of measuring volt-amperes as a basis for demand. Some interesting results have been obtained, (these having been from time to time published in the "Bulletin"): and it has been found possible to measure volt-ampere demand on a commercial basis which is fair and satisfactory both to utility and user.

In view of the activities of the Canadian Engineering Standards Association, it was deemed advisable to suspend for a time the work which was being carried on in revising the meter type acceptance specifications and in preparing purchase specifications, and to merge our efforts with those of the Meter Committee of that body. This Committee has held several sessions, at which the Commission was represented; and much other work is being carried on by correspondence. The Laboratories is also represented on the Instruments and Measurements Committee of the American Institute of Electrical Engineers.

Many new types of equipment have been investigated prior to their adoption by the Commission for use in its stations or elsewhere on its systems. These include: temperature recorders, graphic meters, demand meters, phase-shifting transformers, current and voltage transformers, watt-hour meters, protective and other relays, insulation testers and various types of switch-board and portable instruments.

This section has continued to lend its assistance to other sections of the Laboratories, and to departments of the Commission outside the Laboratories in the solution of special problems in measurement that have developed from time to time; and, with the flexible equipment which is at hand, has often been able to find a very easy way of accomplishing measurements which at first appeared baffling. As an example of this work there may be cited the case of a certain relay connection in one of the stations which gave dissatisfaction during switching operations. Instruments of the indicating type failed to give any clue as to the nature of the trouble. The oscillograph was then applied to the system and a few exposures were made of the current and voltage waves during switching. There was found a pronounced harmonic lasting only a few seconds; but quite sufficient in that time to produce abnormal operation. With the facts of the case definitely known, it was an easy matter to take steps for the eradication of the fault. By such tests as these, and by a studied co-operation between this section and the other sections both within and without the Laboratories, it is felt that the Meter Laboratory is rendering a service not only to the Hydro-Electric Power Commission, but to the electrical industry of the province as a whole.

Photometric Laboratory

The Photometric Section of the Laboratories is organized and equipped for the purpose of making tests on all kinds of apparatus, the purpose of which is the production, distribution and utilization of electric light. These tests involve the efficiency and life-performance of lamps, the adaptation of lamps to special purposes and the study of the characteristics or reflection and transmission of the various media of which lighting auxiliaries are made.

Due to the close connection between lighting and commercial activities we have found our work to follow, more or less, the fluctuations of business con-

ditions. The volume of work handled by this section during the past year has been less than for several previous years.

Tests were made on lamps from several of the lamp companies in Canada, for the purpose of selecting a make of high quality upon which the Commission could standardize for the lamp requirements of the "Hydro" municipalities. In connection with this matter visits were made to the factories involved to study the manufacturing facilities of the different companies.

A study of the economics of lamp operation under present conditions was made. Calculations of the cost of lighting for different rates of power and prices of lamps indicated that although the solution of the problem of the most economical efficiency is too complicated for general application throughout the province, a satisfactory compromise can be made; the adoption of efficiencies to produce an average life of 1,500 hours was decided upon as the most suitable for general use on Hydro systems.

Tests were made by several observers at the Laboratory to determine whether or not the slight decrease in candle power due to the adoption of 1,500 hours as the standard life in preference to 1,000 hours could be detected. Under conditions purposely arranged to favor the comparison it was found that the smallest differences in candle-power that could be detected by visual observation were considerably larger than the differences in candle power between lamps of 1,000-hour and 1,500-hour efficiencies. From the data obtained by these studies a new set of specifications for the purchase of vacuum and gas-filled multiple lamps was drafted and approved. A revision of the specifications for series lamps was also made.

The design of the lighting equipment for the Queenston generating station was assigned to this department. In order to obtain data for the desired lighting schemes it was necessary to make a number of special tests of glass and reflectors. Several types of glasses were tested to determine their percentage of transmission (of the incident light).

The testing of automobile headlight devices for the Department of Highways was commenced in the year 1920 and has now been reduced to a routine basis.

A number of tests of the distribution of light from industrial and commercial lighting units was made.

A considerable number of lamp tests was made for outside parties.

The tests which a photometric laboratory is called upon to make are varied in character and from time to time our equipment has been modified to meet new demands upon it.

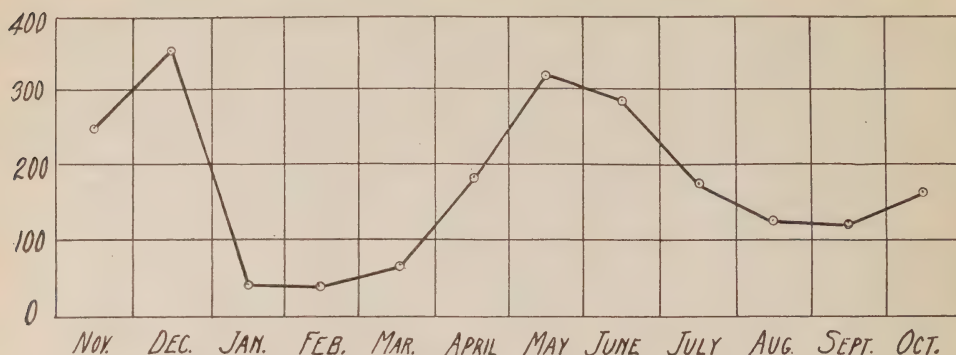
Structural Materials Laboratory

The activities of the Structural Materials Laboratory may be classified into three divisions, cement testing, concrete testing and the testing of miscellaneous structural materials. To this might be added co-operative activities in conjunction with national organizations, such as the Canadian Engineering Standards Association, in carrying out technical investigations and in the preparation of specifications.

Cement Testing

Because of the quantity of concrete work which has been carried out at the Queenston-Chippawa Power Development, the volume of cement testing during the past year has been very great. In this time 2,143 tests were completed besides the many check tests and special tests of various kinds incidental to this work. The accompanying diagram shows the way in which this work was distributed over the year.

To handle this volume of work it was necessary to enlarge the space devoted to cement testing and to increase the equipment. Special labor-saving

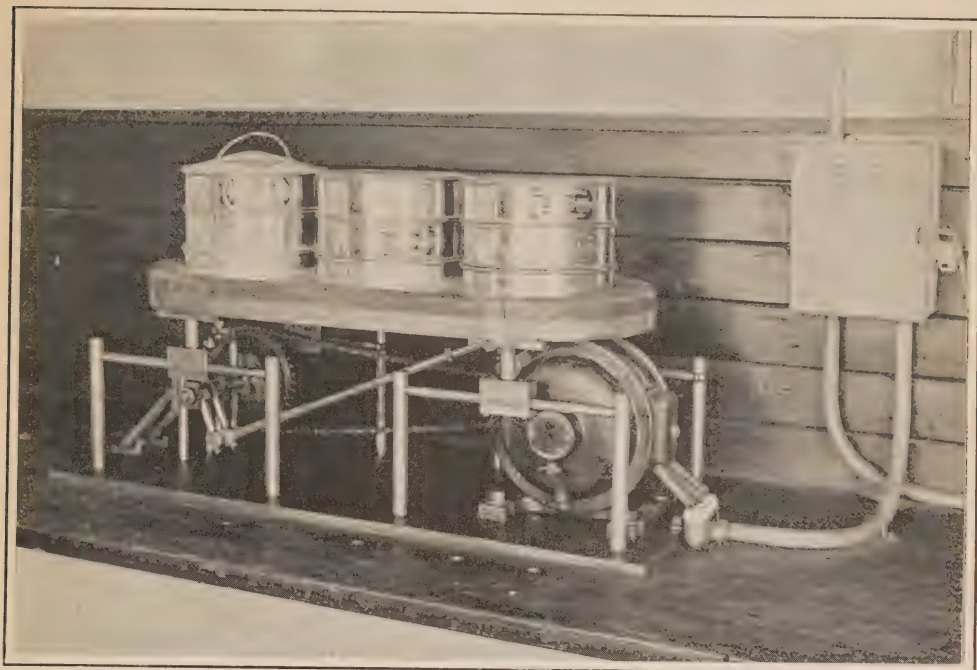


TESTS PERFORMED IN CEMENT LABORATORY.

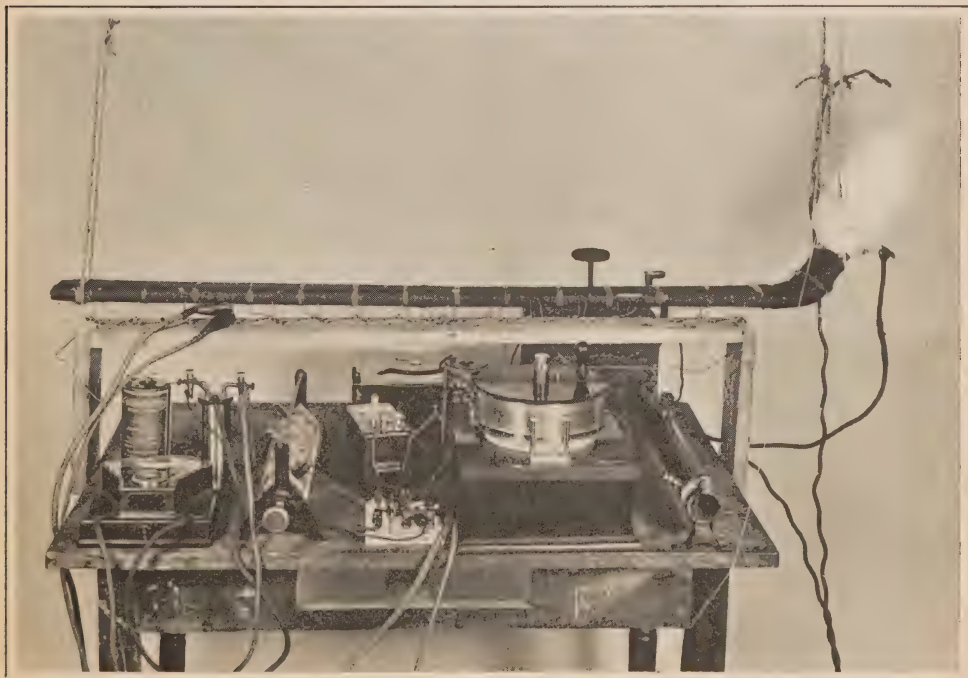
devices were installed. Fineness tests, which were formerly done by hand, are now carried out mechanically by the machine shown in the illustration. This apparatus enables one operator to complete eight tests in the time in which formerly he could do only one, and it is so designed that it can be used for many other kinds of testing where reciprocating motion is required. The cleaning of molds and glassware is one of the most disagreeable and laborious jobs around a cement laboratory. A machine for doing this has been installed which has greatly simplified and expedited this work.

Not only was new equipment added, but the cement laboratory was entirely rearranged and the work separated from the sand testing which formerly had been carried out in conjunction with it. Additional molds and storage space were provided to enlarge the capacity of the laboratory to 150 tests per week. This capacity was never reached during the year due to the change in the date of completion of the Queenston-Chippawa Development and to the fact that the total number of tests was greatly reduced, as is explained later. The greatest number of tests handled in any one week was 125 and the greatest number in any one day was 30. Arrangements were made with the express companies for special service in the delivery of cement samples from the different mills. Each train carrying samples was met by a truck, and operators were kept on duty both Sundays and holidays, with the result that practically all cement tests were completed on the 8th day after shipment was made from the cement mill, a very creditable record.

A large part of the cement used by the Commission this past summer was tested and accepted before shipment. This was made possible by having special bins reserved at the different mills for the exclusive use of the Commission. These bins were filled under the supervision of a representative of the Commission who took periodic samples of the cement as delivered to the bin; these samples were sent to Toronto and tested. If the test showed the cement to be of satisfactory quality it was accepted for use and was then loaded and shipped as required, under the supervision of the mill representative of the Commission. This method prevented shipment of any unsatisfactory cement with its resulting inconvenience and expense, permitted the use of satisfactory cement immediately upon its receipt at the job, and eliminated demurrage, rehandling and storage charges. It also resulted in a considerable decrease in the cost of testing and inspection, several hundred fewer tests being required than would have been necessary if tests had been made on each individual shipment.



Machine for Testing Fineness of Cement



Apparatus for Measuring Thermal Conductivity of Insulation of a Section of Armature Coil. Heat is supplied at one end of the coil and as heat is carried away through the insulation as well as lengthwise of the conductor the temperature at the inner and outer surfaces of the insulation give an accurate means of determining the relative values between the insulation and copper as to thermal conductivity. These temperatures are measured by properly placed resistance coils

Concrete Testing and Research

Several major investigations have been in progress during the year. The studies on the different methods of proportioning concrete mixtures carried out in co-operation with the American Society for Testing Materials has been completed, and the use of certain admixtures for accelerating the early hardening of concrete has been studied. It has been found possible, by the addition of small percentages of calcium chloride, to increase the early strengths of concrete to such an extent that forms could be removed at least 24 hours sooner than would otherwise have been possible. The facts thus brought out have been applied on the Queenston-Chippawa Development and enabled maximum production to be obtained from the canal lining-plants during the fall and winter months when the cooler weather would otherwise have made it impossible to pour concrete continuously.

Another interesting series of tests has just been completed upon a number of proprietary materials used to harden concrete floors. Concrete blocks were treated with the different compounds and given a wearing test. The results of these tests showed a considerable difference in the effectiveness of the different materials. An interesting outcome of these tests was the fact that one of the most successful hardening materials was one made up in our own chemical laboratory.

Inspection of Engineering Materials

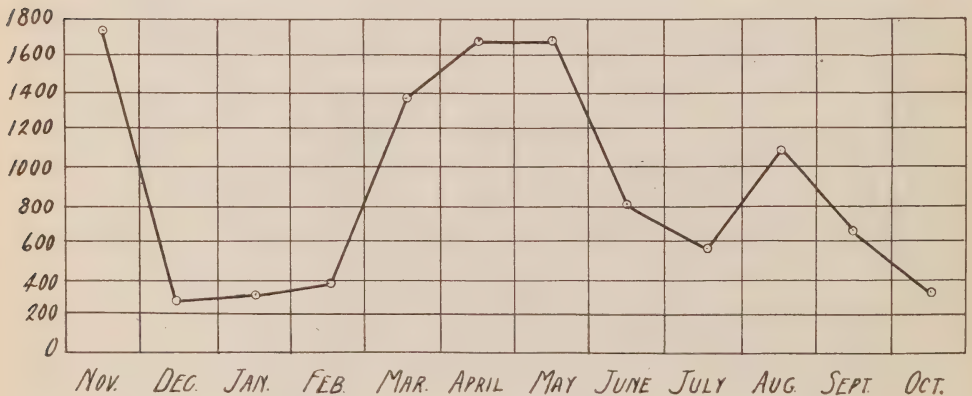
Over 11,000 tons of structural steel have been inspected by this section during the past year. The accompanying diagram shows how this work has been distributed. Resident inspectors have been stationed at the principal structural shops and others have been located here and there as work required. The particular items which make up this tonnage are:

Queenston-Chippawa Development:

Power house, screen-house superstructure, screen house gates and racks, penstocks, administration building, canal lining forms, control gate.

Ranney Falls Development:

Power house, gates and cranes, reinforcing steel.
9,000 ft. cast-iron pipe.
260 transmission towers.



TONNAGE OF FABRICATED STEEL
INSPECTED BY INSPECTION DEPT.

Besides these items there have been many small jobs handled such as pipe, rails, transformer tanks, steel and iron shafts, hydrants and special steel work of intricate design.

Chemical Laboratory

The chemical laboratory is equipped to make all classes of chemical analyses, both organic and inorganic. It is particularly well equipped for the physical and chemical examination of oils, both lubricating and insulating. Particulars of this equipment have been given in past reports.

An interesting series of tests on concrete paints has been completed during the year. Samples were submitted by most of the principal manufacturers of this class of paint. Exposure panels of concrete were prepared and painted with these samples and were then placed on the roof of the Laboratory. They were examined periodically. It was found that very few of these paints were giving satisfactory protection at the end of the first six months. Those which were satisfactory at the end of six months are still satisfactory after a year and a half. A similar series of tests is now under way for paints on structural steel and a series has just been started on paints for metallic surfaces which have been galvanized.

Besides the usual routine work of the Chemical Laboratory studies have been made during the year upon the fixation of nitrogen, the operation of certain gas plants, the sludging of insulating oils and the emulsification of lubricating oils.

Photographic Laboratory

The work in this Laboratory has increased in volume during the past year. This is largely due to the Queenston-Chippawa Power Development, which necessitated a very large amount of photographic work. The Nipigon Development was also visited by the Official Photographer during the year, and a large number of photographs was taken. The routine work of the Laboratory has also increased, it having included the copying of drawings, maps, etc., and the making of lantern slides, in addition to the developing and printing work sent in by members of the staff from the field.

The blue-printing section has been kept busy and has been able to take care of approximately 25 per cent of the Commission's blue-printing business.

SECTION VIII.

MUNICIPAL ACCOUNTS

The Municipal Accounts section of this report presents the results of the operation of the various Hydro systems from a municipal standpoint collectively and individually. Statements prepared from figures extracted from the books of all Hydro municipalities are submitted herein to show how each has operated during the past two years; also the financial status at the present time; as well as much useful statistical information, all so arranged as to permit of comparisons being made between various systems and between different municipalities in each system.

The books of account in all municipalities which have contracted with the Hydro-Electric Power Commission of Ontario for a supply of power are kept in accordance with the provisions set forth in the publication "Uniform Accounting for Municipal Electric Utilities," issued by the Commission. The Commission, by a system of periodical inspections and reports, keeps in close touch with the operating conditions of each local system.

During the year 1921, the Uniform Accounting system was installed in the following municipalities as each became ready for the service: Alexandria, Apple Hill, Havelock, Kincardine, Lanark, Lancaster, Lucknow, Marmora, Martintown, Maxville, Norwood, Port Dover, Priceville, Queenston, Ripley, Teeswater, Thorold, Wardsville and Wingham.

Periodical inspections were made of the books of all Hydro municipalities, and local officials have been assisted in the improvement of their office routine with a view to standardizing, as far as possible, the methods employed. In the majority of the smaller municipalities, much of the bookkeeping is performed by representatives of the Municipal Audit Department, in order to insure the employment of proper classifications of Revenue and Expenditures and to save time in preparation of reports. The books of all municipal systems were closed at the end of the year by this department, in order to insure compliance with all the requirements of the Standard Accounting system, and to make certain that the accounts represent as truly as possible the actual operating results for the year.

The first financial statement in this preface presents consolidated operating reports for each year since Hydro was inaugurated and combines the results of all the systems. Study of this report will show that the revenue has been increasing to a most satisfactory degree. The annual surpluses, after providing all possible cost of operation, including an adequate depreciation charge, have increased until, in 1921, the combined annual surpluses amounted to \$619,726.45.

The second statement presents consolidated balance-sheets for each year since 1912, and also shows clearly the march of progress. It is worth noting that the total plant value has increased from \$10,081,469.16 in 1913 to \$31,656,854.60 in 1921; and the total assets from \$11,907,826.86 to \$40,111,979.23. The liabilities have not increased in the same proportion as the assets, rising from

\$10,468,351.79 to \$25,434,257.74. The reason for this is that much of the cost of the increasing plant value has been financed out of Surplus and Reserve accounts without increasing the liabilities of the various systems. By this procedure the funds of the systems are used to best advantage. Examination of the results will also show that there is a steady decline in the percentage of net debt to total assets; being from 88.0 per cent. in 1913 to 63.3 per cent. in 1921.

The seven statements, "A" to "G," following these two consolidated reports, show the results of operations and the financial status of each municipal system, and also give information respecting revenue, number of consumers and consumption; cost of power to municipalities; power and lighting rates charged to consumers, etc. Some of the figures are comparative for the past two years and others for all the years of operation. The figures are arranged in groups under each system and alphabetically for the municipalities in each system, except in the smaller statements, "D" to "G," in which all "Hydro" municipalities are arranged alphabetically.

"Statement A" shows comparative balance-sheets for each municipality for the past two years, with the plant value sub-divided into the general natural sub-divisions specified in the standard accounting system and there are also shown the other items which make up the total assets. It is to be noted that among the assets there are items entitled "Equity in Hydro System." These items represent the amount of accumulated Sinking Fund paid by the various municipalities through the medium of "Power Cost" toward the ultimate retirement of the Hydro-Electric Power Commission's construction debt. The total accumulation to the end of 1921 is shown on the Consolidated Balance-sheet to be \$755,846.16.

There are also items entitled "Equity in Rural Lines." These items represent the Sinking Fund accumulated on lines serving rural customers, which were built by the Commission but are operated by municipalities and the Commission makes Interest and Sinking Fund charges on the Capital expended. The total accumulation to the end of 1921 is \$39,724.35. This is less than in 1920, due to the fact that some municipalities have taken over, as part of their local systems, the primary lines previously carried upon the books of the Commission.

In each case the balance-sheet is complete and final, including either in "Accounts Receivable" or "Accounts Payable" the adjustments with this Commission of the differences between the estimated and the actual costs of power.

The actual liabilities of each local system are set out under their general sub-divisions,—Debenture Balance, Accounts Payable, Bank Overdraft, and other Liabilities. This last account, however, includes local debentures issued by municipalities in order to finance ornamental street light systems as local improvements, and, strictly speaking, such outlay is not a liability of the local Hydro systems. However, inasmuch as the corresponding asset is included in the plant value, it seemed most logical to show the cost, as here presented.

The Reserves for Depreciation, and the acquired equity in the Hydro-Electric Power Commission system, are also listed separately and totalled; and under the heading "Surplus" is included not only the free operating profit but the accumulation of Sinking Fund applicable to debenture debt and also the amount of debentures already retired out of revenue which properly belong under this heading.

The percentage of net debt to total assets is also shown; the figures show, as noted above, a consistent decrease year by year from 88.0 per cent. in 1913 to 63.3 per cent. in 1921.

The Depreciation Reserve now amounts to 20.8 per cent. of the total depreciable plant, while the Depreciation Reserve and Surplus combined have already reached a sum approximating 43.7 per cent. of the total plant cost.

In many municipalities the liquid assets alone,—comprising Cash, Victory Bonds, Accounts Receivable and Inventories—now exceed the actual liabilities, including the balance of the debenture debt.

The following table shows a number of Hydro Municipalities where this condition maintains, or where doubtless it will soon be attained:—

	Liabilities	Liquid Assets
Acton	\$6,109.21	\$6,207.79
Baden	4,053.42	5,784.82
Beachville	5,249.60	11,528.70
Brampton	52,006.75	35,711.42
Barrie	38,154.54	55,697.72
Georgetown	17,496.12	19,029.91
Ingersoll	95,791.18	66,560.99
Milton	14,085.41	16,364.56
Mitchell	7,183.45	7,509.77
St. Thomas	111,453.40	85,576.91
St. George	5,386.90	5,732.40
Tavistock	5,500.97	11,842.66
Waterdown	5,192.92	7,001.95
Waterford	1,746.46	3,379.63

“**Statement B**” is a consolidated condensed operating report, showing the essential figures of each municipal system’s operation in such a manner as to facilitate a ready comparison of the various results. The population served by each system, as well as the number of customers and the load taken in December, 1921, are also shown in order to give an idea of the relative sizes of the respective utilities.

“**Statement C**” shows comparative detailed operating reports for each utility for 1920 and 1921 where the operation has been for two years and for 1921 only where the service was inaugurated during that year. The cost of power includes the adjustment made by this Commission and hence covers the actual cost and not the cost at the interim billed rates.

Of the 205 municipalities included in this report, a total of 32 failed to meet their actual cost of operation without regard to depreciation, and of these, eleven were new units on the Eugenia and St. Lawrence Systems operating for less than a year. A total of 51, including the above, failed to provide full theoretical depreciation in addition to all operating and maintenance expenses. In most cases, these exceptions are very small municipalities, and their relative unimportance is clearly disclosed by the totals. These 51 municipalities indicate a total theoretical loss of \$86,069.17, while the remaining 154 municipalities piled up a surplus of \$705,795.52, thus leaving a net surplus from all Hydro municipalities of \$619,726.45.

“**Statement D**,” in many respects, is the most interesting report in the series. It gives more information respecting the actual results of operation from the viewpoint of the consumer than is obtainable from the published reports of any other system of electric utilities regardless of where operated or whether publicly or privately owned.

This “**Statement D**” shows the revenue, kilowatt-hour consumption, number of consumers, average monthly consumption, average monthly bill and the

net average cost per kilowatt-hour both for domestic and for commercial service in each municipality since "Hydro" was first installed. For comparative purposes the rates in effect prior to the installation of "Hydro" are also indicated. The average flat-rate cost of horsepower as billed to power customers since 1917 is also shown.

In many municipalities the average monthly bill has increased during the past two years. This is due to the institution of the minimum-bill system which increased the average cost per kilowatt-hour where the consumption did not increase so as to take up to the minimum. In practically all municipalities the cost per kilowatt-hour has been steadily declining, due to the constantly increasing use of electrical appliances and the consequently large number of kilowatt-hours consumed at the lower rate.

"**Statement E**" shows the installation of street lights in each municipality together with the rates set by this Commission, the revenue for 1921 and the cost per capita in each municipality.

"**Statement F**" and "**Statement G**" present the local rates in use by each utility and also those charged by the Commission on the interim power bills.

A study of these various reports will clearly show that Hydro business in general and that of Hydro municipalities in particular are in a most satisfactory financial condition. There is no unfavorable criticism of the working out of the economic policies of the Hydro-Electric Commission of Ontario which cannot intelligently and satisfactorily be met by direct appeal to the official figures in the balance-sheets and operating reports herein presented.

CONSOLIDATED

YEAR	1912	1913	1914
Number of Municipalities included.....	28	45	69
EARNINGS	\$ c.	\$ c.	\$ c.
Domestic Light.....		572,154.38	789,130.81
Commercial Light.....		525,438.16	673,803.92
Commercial Power.....		905,378.17	1,214,829.31
Municipal Power.....			
Street Light.....		560,925.56	698,409.71
Rural.....			
Miscellaneous.....		53,543.24	57,482.41
Total Earnings.....	1,617,674.00	2,617,439.51	3,433,656.16
EXPENSES			
Power Purchased.....		789,632.87	1,045,752.65
Sub-Station Operation.....		78,394.81	97,658.90
Sub-Station Maintenance.....		18,698.46	31,790.99
Distribution System Operation and Maintenance.....		104,114.51	130,998.65
Line Transformer Maintenance.....		8,547.61	11,764.32
Meter Maintenance.....		5,222.19	9,536.07
Consumers' Premises Expenses.....		53,108.38	65,192.23
Street Light Operation and Maintenance.....		84,903.76	113,047.80
Promotion of Business.....		72,303.51	86,683.02
Billing and Collecting.....		77,351.76	103,560.71
General Office Salaries and Expenses.....		154,932.69	230,899.75
Undistributed Expense.....		65,423.64	89,350.91
Rural Operation.....			
Interest.....		528,549.21	662,092.34
Sinking Fund and Principal Paym'ts on Debentures.....		*	*
Total Expenses.....	1,377,168.00	2,041,183.40	2,678,328.34
Surplus.....	240,506.00	576,256.11	755,327.82
Depreciation Charge.....	124,992.47	262,675.24	357,883.31
Surplus Less Depreciation.....	115,513.53	313,580.87	397,444.51

* Includes Interest and Debenture Payments.

OPERATING REPORT

1915	1916	1917	1918	1919	1920	1921
99	128	143	166	181	186	215
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
944,271.08	1,172,878.96	1,417,460.31	1,632,272.12	1,991,632.31	2,546,345.30	3,149,080.03
720,209.26	812,130.78	899,023.72	968,399.42	1,175,143.56	1,512,854.63	1,851,501.76
1,501,797.78	1,921,152.31	2,665,280.65	3,417,248.37	3,443,107.13	3,752,188.22	3,895,437.46
.....	.....	.....	.....	.....	532,279.09	654,531.01
835,970.87	930,057.48	967,495.10	902,875.55	988,900.95	1,005,535.11	1,060,357.77
.....	.....	.....	.....	.....	168,919.95	145,566.57
68,046.29	147,381.50	120,805.39	161,243.70	228,270.65	189,778.63	225,467.70
4,070,295.28	4,983,601.03	6,070,065.17	7,082,039.16	7,827,054.60	9,707,900.93	10,981,942.30
1,485,614.72	1,959,446.83	2,563,880.17	2,807,769.33	3,284,490.68	4,216,667.87	4,876,650.31
107,607.31	153,761.08	203,091.20	238,257.34	217,638.89	285,407.35	314,838.35
25,935.56	46,131.53	42,129.04	60,805.92	81,853.63	102,050.81	104,798.01
154,409.71	154,247.17	169,326.24	223,347.81	286,310.76	344,551.57	479,405.38
11,508.92	14,528.17	25,328.95	30,488.83	42,509.12	46,323.09	65,088.46
12,899.14	24,218.48	44,461.55	63,155.56	78,726.64	123,701.18	116,722.97
47,494.26	52,602.01	61,765.14	65,149.59	84,301.24	116,283.52	134,854.92
136,983.38	145,471.50	157,857.73	196,157.18	215,963.86	236,930.79	297,481.52
74,402.55	79,324.85	73,516.37	64,962.78	77,789.22	78,294.85	101,804.46
131,541.27	154,508.58	188,083.84	208,660.76	236,504.75	295,942.88	321,685.71
236,777.86	306,709.35	349,932.05	421,680.15	452,131.22	559,695.29	656,268.11
129,209.15	97,333.97	102,938.80	117,474.07	190,690.09	256,400.33	308,874.42
.....	.....	.....	.....	.....	.....	8,512.95
817,978.89	951,781.99	1,085,180.80	1,238,425.53	1,285,571.51	1,431,807.16	998,611.47
*	*	*	*	*	*	532,183.96
3,371,414.00	4,140,065.51	5,077,491.08	5,736,334.85	6,531,481.61	8,094,056.69	9,317,781.00
698,881.28	843,535.52	992,574.09	1,345,704.31	1,295,572.99	1,613,844.24	1,664,161.30
414,506.99	486,141.80	607,296.29	718,162.30	814,219.37	902,028.75	1,044,434.85
284,374.29	357,393.72	385,367.80	627,542.01	481,353.62	711,815.49	619,726.45

CONSOLIDATED

	1913	1914	1915
Number of Municipalities included.....	45	69	99
ASSETS	\$ c.	\$ c.	\$ c.
Lands and Buildings.....	626,707.34	791,732.20	873,838.18
Sub-Station Equipment.....	1,090,875.69	1,476,087.84	1,582,062.56
Distribution System—Overhead.....	2,690,834.74	3,422,763.93	4,234,626.05
Distribution System—Underground.....	644,514.24	807,153.53	928,420.77
Line Transformers.....	615,546.20	787,613.52	981,754.70
Meters.....	840,606.64	1,172,475.11	1,418,165.08
Street Light Equipment—Regular.....	900,614.80	1,071,255.37	1,309,628.49
Street Light Equipment—Ornamental.....	62,765.34	270,386.55	197,644.82
Miscellaneous Construction Expenses.....	866,551.89	2,062,035.90	1,701,182.66
Steam or Hydraulic Plant.....	1,401,175.28	420,108.33	461,651.60
Old Plant.....	341,277.00	619,513.12	1,184,372.86
Total Plant.....	10,081,469.16	12,901,125.40	14,873,347.77
Bank and Cash Balance.....	450,887.97	422,350.12	284,653.96
Securities and Investments.....			
Accounts Receivable.....	344,487.95	561,873.08	602,920.69
Inventories.....	540,274.58	615,226.76	726,556.76
Sinking Fund on Local Debentures.....	431,747.27	625,217.03	868,983.78
Equity in Hydro System.....			
Equity in Rural Lines.....			
Other Assets.....	58,959.93	123,410.97	326,801.11
Total Assets.....	11,907,826.86	15,249,203.36	17,683,264.07
LIABILITIES			
Debenture Balance.....	8,711,308.37	10,678,078.36	11,831,811.03
Accounts Payable.....	1,553,711.45	1,682,150.29	2,040,038.01
Bank Overdraft.....	160,919.16	228,622.50	292,106.44
Other Liabilities.....	42,412.81	113,838.66	37,388.31
Total Liabilities.....	10,468,351.79	12,702,689.81	14,201,343.79
RESERVES			
Reserve for Depreciation.....	478,145.88	850,618.07	1,337,739.73
Reserve for Equity in H.E.P.C. System.....			
Res. for Equity in H.E.P.C. Sys.—Rural.....			
Total Reserves.....	478,145.88	850,618.07	1,337,739.73
SURPLUS			
Debentures Paid.....	202,751.26	320,129.10	394,466.22
Local Sinking Fund.....	431,747.27	625,217.03	868,983.78
Additional Operating Surplus.....	326,830.66	750,549.35	880,730.55
Total Surplus.....	961,329.19	1,695,895.48	2,144,180.55
Total Liabilities, Reserves and Surplus.....	11,907,826.86	15,249,203.36	17,683,264.07
Percentage of Net Debt to Total Assets.....	88.0%	83.3%	80.3%

BALANCE SHEET

1916	1917	1918	1919	1920	1921
128	143	166	191	195	215
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
1,335,936.33	1,546,241.41	1,859,888.69	1,995,545.83	2,175,568.24	3,230,985.63
1,934,626.12	2,471,293.82	2,820,448.70	2,915,125.56	3,231,050.80	5,403,689.90
4,832,353.27	6,080,073.42	6,627,237.39	7,445,820.31	8,579,881.49	8,397,361.48
1,095,709.62	1,157,059.90	1,216,288.59	1,206,296.88	1,313,369.29	1,401,135.97
1,179,132.07	1,483,839.44	1,772,691.35	2,073,113.45	2,560,581.59	3,077,649.83
1,711,299.49	1,999,095.48	2,238,143.70	2,587,566.32	3,053,135.20	3,552,076.79
1,251,057.13	1,237,734.69	1,200,625.65	1,206,638.71	1,269,006.98	1,335,997.13
306,388.95	361,975.74	531,502.61	546,497.68	557,678.13	610,586.70
2,059,263.42	2,184,015.84	2,395,096.50	2,530,101.08	2,697,636.12	3,030,134.16
864,500.01	896,753.20	214,575.75	986,200.57	757,194.47	704,848.46
759,748.66	649,852.51	1,476,413.00	805,959.89	864,298.39	912,388.55
17,330,015.07	20,077,935.45	22,352,951.93	24,298,866.28	27,059,400.70	31,656,854.60
1,061,029.90	340,026.50	391,194.91	462,437.23	943,858.12	900,842.34
.....	.....	.....	627,076.53	341,855.88	556,608.53
695,152.23	1,285,097.33	1,124,018.44	1,921,166.69	2,022,538.88	2,148,287.05
764,504.59	1,261,398.36	972,996.96	1,032,569.75	1,400,671.89	1,504,596.28
1,166,017.73	1,337,578.96	1,663,298.05	1,925,455.77	2,244,004.34	2,541,718.35
.....	.....	.....	344,410.94	531,299.63	755,846.16
.....	.....	.....	24,660.95	46,284.43	39,724.35
342,215.87	125,240.05	444,787.63	86,216.05	25,447.07	78,929.84
21,358,935.39	24,427,276.65	26,949,247.92	30,722,860.19	34,615,360.94	40,111,979.23
15,058,641.57	15,593,773.61	17,209,217.70	18,133,462.44	19,268,072.04	21,619,220.99
969,187.75	1,537,669.11	1,007,727.79	1,420,926.66	1,840,137.54	1,887,567.93
178,413.26	886,177.94	576,816.49	403,235.57	514,671.99	989,099.98
491,874.90	429,104.20	350,013.21	670,271.90	642,293.65	938,368.84
16,698,117.48	18,446,724.86	19,143,775.19	20,627,896.57	22,265,175.22	25,434,257.74
1,843,804.68	2,463,723.83	3,133,550.17	3,750,162.28	4,788,645.03	5,491,858.93
.....	.....	.....	344,410.94	531,299.63	759,415.73
.....	.....	.....	29,460.95	46,284.43	40,833.32
1,843,804.68	2,463,723.83	3,133,550.17	4,124,034.17	5,366,229.09	6,292,107.98
549,778.59	694,797.90	920,076.56	1,328,657.68	1,440,157.52	1,860,079.53
1,165,785.94	1,340,615.38	1,662,602.69	1,754,020.37	2,246,474.47	2,541,718.35
1,101,448.70	1,481,414.68	2,089,243.31	2,888,251.40	3,297,325.64	3,983,815.63
2,817,013.23	3,516,827.96	4,671,922.56	5,970,929.45	6,983,956.63	8,385,613.51
21,358,935.39	24,427,276.65	26,949,247.92	30,722,860.19	34,615,360.94	40,111,979.23
78.4%	75.5%	71.0%	67.9%	65.3%	63.3%

STATEMENT

Comparative Balance Sheets of Electric Departments

NIAGARA SYSTEM

Municipality	Acton		Ailsa Craig		Ancaster
Population	1,594		535		
	1920	1921	1920	1921	1920
	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
ASSETS					
Lands and Buildings.....	1,500.00	1,500.00			
Sub-Station Equipment.....	597.62	597.62			
Distribution System, Overhead...	9,386.96	9,917.78	6,352.68	6,559.22	13,181.18
Dist. System, Underground.....					
Line Transformers.....	3,176.03	3,648.03	2,020.97	2,020.97	2,809.16
Meters.....	3,503.39	4,113.28	1,317.69	1,688.01	4,030.16
Street Light Equipment, Regular.	956.08	1,041.02	362.97	362.97	455.25
Street Light Equip., Ornamental..					
Miscellaneous Construction Exp..	1,804.29	1,512.29	492.36	492.36	1,147.70
Steam or Hydraulic Plant.....					
Old Plant.....	3,481.50	3,481.50			
Total Plant.....	24,405.87	25,811.52	10,546.67	11,123.53	21,623.45
Bank and Cash Balance.....	562.13	1,234.84		1,326.40	
Securities and Investments.....	1,000.00	3,000.00	1,000.00	2,000.00	
Accounts Receivable.....	3,176.71	1,017.85		622.18	417.84
Inventories.....	1,561.48	955.10			
Sinking Fund on Local Debentures					
Equity in Hydro System.....	1,354.12	1,822.04		322.53	
Equity in Rural Lines.....					727.48
Other Assets.....					
Total Assets.....	32,060.31	33,841.35	14,091.60	15,394.64	22,768.77
Deficit.....					
Total.....	32,060.31	33,841.35	14,091.60	15,394.64	22,768.77
LIABILITIES					
Debenture Balance.....	6,407.01	6,027.21	6,606.60	6,458.14	16,784.97
Accounts Payable.....	488.00	82.00	414.59	331.45	107.15
Bank Overdraft.....			700.75		1,004.97
Other Liabilities.....					
Total Liabilities.....	6,895.01	6,109.21	7,721.94	6,789.59	17,897.09
RESERVES					
Reserve for Depreciation.....	4,591.00	5,339.84	1,615.00	2,094.00	1,075.00
Reserve for Equity in H.E.P.C. Sys	1,354.12	1,822.04		322.53	
Res. for Equity in H.E.P.C. (Rural)					727.48
Total Reserves.....	5,945.12	7,161.88	1,615.00	2,416.53	1,802.48
SURPLUS					
Debentures Paid.....	8,092.99	8,472.79	276.04	424.50	215.03
Local Sinking Fund.....					
Additional Operating Surplus....	11,127.19	12,097.47	4,478.62	5,764.02	2,854.17
Total Surplus.....	19,220.18	20,570.26	4,754.66	6,188.52	3,069.20
Total Liabilities—Res. and Surplus	32,060.31	33,841.35	14,091.60	15,394.64	22,768.77
Percentage of Net Debt to Total Assets.....	22.4	18.0	54.8	44.1	78.6

“ A ”

of Hydro Municipalities as at December 31st, 1921

Township	Aylmer 2,241		Ayr 796		Baden P.V.	
1921	1920	1921	1920	1921	1920	1921
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
			125.00	125.00	660.64	660.64
14,679.75	14,441.06	15,080.80	6,455.72	6,533.25	4,492.15	4,495.58
3,630.52	3,750.91	3,976.48	1,428.39	1,428.39	1,755.52	1,815.52
5,388.68	5,231.60	5,720.13	1,475.62	1,585.59	1,194.21	1,290.53
626.81	1,124.55	1,124.55	360.27	260.27	370.02	370.02
1,147.70	1,051.86	1,051.86	785.49	785.49		
	14,719.17	14,719.17	4,006.03	4,006.03		
25,473.46	40,319.15	41,672.99	14,636.52	14,824.02	8,472.54	8,632.25
	4,493.81	2,286.73	201.62	160.88	3,722.13	2,888.77
		6,000.00	1,000.00	1,000.00		
346.69	367.37	301.42	1,124.46	1,486.21	2,645.26	2,818.80
		19.40	4.36	100.11	37.73	77.25
			202.38	458.30	1,458.83	1,945.89
849.44						
26,669.59	45,180.33	50,280.54	17,169.34	18,029.52	16,336.49	16,362.96
26,669.59	45,180.33	50,280.54	17,169.34	18,029.52		16,362.96
16,557.04	32,522.32	31,848.92	8,834.33	8,118.50	4,170.17	4,053.42
85.00	1,017.18	136.72	1,132.89			
2,122.30						
18,764.34	33,539.50	31,985.64	9,967.22	8,118.50	4,170.17	4,053.42
2,221.00	1,960.00	2,891.38	2,395.00	2,935.00	2,419.40	2,112.52
			202.38	458.30	1,458.83	1,945.89
849.44						
3,070.44	1,960.00	2,891.38	2,597.38	3,393.30	3,878.23	4,058.41
442.96	6,179.60	6,853.00	3,669.05	4,384.88	829.83	946.58
4,391.85	3,501.23	8,550.52	935.69	2,132.84	7,458.26	7,304.55
4,834.81	9,680.83	15,403.52	4,604.74	6,517.72	8,288.09	8,251.13
26,669.59	45,180.33	50,280.54	17,169.34	18,029.52	16,336.49	16,362.96
70.3	74.2	63.4	58.7	45.0	28.0	24.8

STATEMENT

Comparative Balance Sheets of Electric Departments

NIAGARA SYSTEM—Continued

Municipality	Barton Township		Beachville		Blenheim
Population			P.V.		1,528
	1920	1921	1920	1921	1920
	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
ASSETS					
Lands and Buildings.....			161.03	161.03	
Sub-Station Equipment.....					909.64
Distribution System, Overhead.....	24,032.91		6,852.22	7,061.22	12,413.21
Dist. System, Underground.....					
Line Transformers.....	1,399.47		1,714.74	1,714.74	3,339.59
Meters.....	6,913.95		1,329.97	1,559.10	3,869.01
Street Light Equipment, Regular.....	708.14		237.03	287.10	825.18
Street Light Equip., Ornamental.....					1,492.13
Miscellaneous Construction Exp.....	276.22		533.36	533.36	602.17
Steam or Hydraulic Plant.....		37,984.07			
Old Plant.....					
Total Plant.....	33,330.69	37,984.07	10,828.35	11,316.55	23,450.93
Bank and Cash Balance.....	28,281.44	3,472.87	1,135.05	2,252.27	1,776.52
Securities and Investments.....		18,000.00	5,000.00	9,000.00	
Accounts Receivable.....	8,985.51	1,821.63	4,627.24	129.86	
Inventories.....			5.08	146.57	100.00
Sinking Fund on Local Debentures					
Equity in Hydro System.....			1,454.17	2,057.29	
Equity in Rural Lines.....					
Other Assets.....					
Total Assets.....	70,597.64	61,278.57	23,049.89	24,902.54	25,327.45
Deficit.....					
Total.....	70,597.64	61,278.57	23,049.89	24,902.54	25,327.45
LIABILITIES					
Debenture Balance.....	51,758.55	50,002.91	4,488.04	4,363.83	13,001.76
Accounts Payable.....	12,511.93	7,493.37		885.77	1,984.30
Bank Overdraft.....					
Other Liabilities.....					1,482.97
Total Liabilities.....	64,270.48	57,496.28	4,488.04	5,249.60	16,469.03
RESERVES					
Reserve for Depreciation.....	4,450.48		3,197.00	3,740.00	3,770.00
Reserve for Equity in H.E.P.C. Sys.....			1,454.17	2,057.29	
Res. for Equity in H.E.P.C. (Rural).....					
Total Reserves.....	4,450.48		4,651.17	5,797.29	3,770.00
SURPLUS					
Debentures Paid.....	255.11	1,202.79	864.96	989.17	998.24
Local Sinking Fund.....					
Additional Operating Surplus.....	1,621.57	2,579.50	13,045.72	12,866.48	4,090.18
Total Surplus.....	1,876.68	3,782.29	13,910.68	13,855.65	5,088.42
Total Liabilities—Res. and Surplus.....	70,597.64	61,278.57	23,049.89	24,902.54	25,327.45
Percentage of Net Debt to Total Assets.....	91.3	93.8	20.7	21.0	65.0

"A"—Continued.

of Hydro Municipalities as at December 31st, 1921

Blenheim	Bolton 656		Bothwell 630		Brampton 4,406	
1921	1920	1921	1920	1921	1920	1921
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
909.64					3,854.06	3,854.06
13,916.57	9,230.49	9,357.30	3,430.37	3,497.71	8,968.83	8,968.83
					36,128.13	37,141.76
5,322.33	5,771.89	5,816.65	1,310.71	1,269.52	12,698.84	13,395.45
4,751.15	2,290.20	2,493.64	1,346.57	1,923.55	12,725.45	13,573.50
1,122.43	561.14	561.14	326.10	326.10	2,101.51	2,106.16
1,492.13						
602.17	982.60	982.60	501.90	501.90	18,056.51	18,056.51
	1,554.60	1,554.60				
28,116.42	20,390.92	20,765.93	6,915.65	7,518.78	94,553.33	97,096.27
				455.13	4,318.09	973.15
			2,000.00	2,000.00	8,239.59	33,276.00
513.20	204.13	233.50	1,243.03	753.93	17,916.71	1,152.97
217.84				47.35	553.32	310.30
677.84		711.46		628.86	4,792.85	6,425.03
	174.65	219.62	1,838.60	2,386.04	35.43	
			1,539.88	1,584.61		
29,525.30	20,769.70	21,930.51	13,537.16	15,374.70	130,389.32	139,233.72
	1,566.90	2,369.47				
29,525.30	22,336.60	24,299.98	13,537.16	15,374.70	130,389.32	139,233.72
12,764.78	11,254.87	10,962.24	4,643.48	4,558.84	52,650.46	50,251.94
	4,481.98	2,795.98	1,492.87			1,754.81
3,584.65	1,934.97	4,006.62	139.44			
1,482.97			1,538.08	1,584.61		
17,832.40	17,671.82	17,764.84	7,813.87	6,143.45	52,650.46	52,006.75
4,867.00	3,245.00	4,066.30	2,122.00	2,160.34	26,670.97	30,826.97
677.84		711.46		628.86	4,792.85	6,425.03
	174.65	219.62	1,838.60	2,386.04	35.43	
5,544.84	3,419.65	4,997.38	3,960.60	5,175.24	31,499.25	37,252.00
1,235.22	1,245.13	1,537.76	890.71	975.35	16,400.18	18,798.70
4,912.84			871.98	3,080.66	29,839.43	31,176.27
6,148.06	1,245.13	1,537.76	1,762.69	4,056.01	46,239.61	49,974.97
29,525.30	22,336.60	24,299.98	13,537.16	15,374.70	130,389.32	139,233.72
60.3	85.1	73.0	57.7	39.7	41.9	37.3

STATEMENT

Comparative Balance Sheets of Electric Departments

**NIAGARA
SYSTEM—Continued**

Municipality	Brantford		Brantford Township		Brigden
Population	32,786				P.V.
	1920	1921	1920	1921	1920
ASSETS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Lands and Buildings.....	22,051.14	33,810.81			101.03
Sub-Station Equipment.....	48,859.71	93,903.12	902.33	902.33	
Distribution System, Overhead.....	142,939.38	156,667.59	29,261.65	30,147.88	5,696.70
Dist. System, Underground.....					
Line Transformers.....	48,879.04	63,445.60	7,268.81	8,031.08	1,122.63
Meters.....	56,311.33	69,334.32	4,732.27	6,083.50	1,220.11
Street Light Equipment, Regular.....	17,618.64	20,169.87	1,523.49	1,555.34	223.35
Street Light Equip., Ornamental.....	34,014.54	34,014.54			
Miscellaneous Construction Exp.....	26,438.24	28,204.78	3,341.41	2,973.27	850.83
Steam or Hydraulic Plant.....					
Old Plant.....					1,473.18
Total Plant.....	397,112.02	499,550.63	47,029.96	49,693.40	10,687.83
Bank and Cash Balance.....	2,286.08	3,359.24	10,558.85	3,014.86	24.49
Securities and Investments.....					
Accounts Receivable.....	10,126.89	6,870.38	1,341.56	1,552.25	185.00
Inventories.....	2,224.36	825.49	108.16	167.48	34.29
Sinking Fund on Local Debentures.....	51,557.00	60,840.28	164.64	360.36	
Equity in Hydro System.....	2,781.47	5,674.15			
Equity in Rural Lines.....					
Other Assets.....					
Total Assets.....	466,087.82	577,120.18	59,203.17	54,788.35	10,931.61
Deficit.....			1,458.78	1,313.00	
Total.....	466,087.82	577,120.18	60,661.95	56,101.35	10,931.61
LIABILITIES					
Debenture Balance.....	215,000.00	377,500.00	54,660.57	45,006.34	4,933.34
Accounts Payable.....	50,276.07	15,620.68	415.00	1,290.71	1,389.40
Bank Overdraft.....					384.17
Other Liabilities.....	37,500.00	2,333.00			
Total Liabilities.....	302,776.07	395,453.68	55,075.57	46,297.05	6,706.91
RESERVES					
Reserve for Depreciation.....	57,544.00	68,152.90	3,433.00	5,243.96	591.00
Reserve for Equity in H.E.P.C. Sys.....	2,781.47	5,674.15			
Res. for Equity in H.E.P.C. (Rural).....					
Total Reserves.....	60,325.47	73,827.05	3,433.00	5,243.96	591.00
SURPLUS					
Debentures Paid.....			1,988.74	4,199.98	3,066.66
Local Sinking Fund.....	51,557.00	60,840.28	164.64	360.36	
Additional Operating Surplus.....	51,429.28	46,999.17			567.04
Total Surplus.....	102,986.28	107,839.45	2,153.38	4,560.34	3,633.70
Total Liabilities—Res. and Surplus.....	466,087.82	577,120.18	60,661.95	56,101.35	10,931.61
Percentage of Net Debt to Total Assets.....	65.3	68.5	93.0	82.5	61.3

"A"—Continued

of Hydro Municipalities as at December 31st, 1921

Brigden	Burford		Burgessville		Caledonia	
	P.V.		P.V.		1,308	
1921	1920	1921	1920	1921	1920	1921
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
101.03	202.00	202.00				
5,400.55	4,228.27	4,921.25	2,180.68	2,179.73	6,564.88	7,125.68
1,122.63	1,137.08	1,137.08	567.81	567.81	713.00	1,304.57
1,360.69	1,403.35	1,710.03	502.29	569.66	1,426.81	1,783.48
223.35	219.40	282.02	122.82	156.07	605.89	605.89
850.83	671.00	671.00	453.00	453.00	473.20	473.20
1,381.00						
10,440.08	7,681.10	8,923.38	3,826.60	3,926.27	9,783.78	11,292.82
1,347.58	663.60	70.39	138.61	417.98	786.37	1,337.27
791.11		220.00	813.27	865.60	1,347.86	
34.29	2.41	29.77			1.00	
		283.82			338.77	569.67
			42.87	32.52		
12,613.06	8,527.11	9,527.36	4,821.35	5,242.37	12,257.78	13,199.76
	931.93	276.17				
12,613.06	9,459.04	9,803.53	4,821.35	5,242.37	12,257.78	13,199.76
4,339.33	3,971.47	3,768.83	2,963.34	2,835.67	4,036.14	3,916.58
2,552.56	3,188.42	2,897.29	59.79			35.88
	2.62	4.42				
6,891.89	7,162.51	6,670.54	3,023.13	2,835.67	4,036.14	3,952.46
982.00	1,268.00	1,618.00	619.00	801.00	2,179.76	2,666.76
		283.82			338.77	569.67
982.00	1,268.00	1,901.82	619.00	801.00	2,518.53	3,236.43
3,660.67	1,028.53	1,231.17	536.66	664.33	587.86	707.42
1,078.50			642.56	941.37	5,115.25	5,303.45
4,739.17	1,028.53	1,231.17	1,179.22	1,605.70	5,703.11	6,010.87
12,613.06	9,459.04	9,803.53	4,821.35	5,242.37	12,257.78	13,199.76
54.0	84.0	68.0	7 25	54.0	62.7	29.9

STATEMENT

Comparative Balance Sheets of Electric Departments

NIAGARA SYSTEM—Continued

Municipality	Chatham		Chippawa		Clinton
Population	15,525		1,099		1,838
	1920	1921	1920	1921	1920
	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
ASSETS					
Lands and Buildings.....	38,519.66	39,013.28			
Sub-Station Equipment.....	35,971.55	46,123.86			7,738.47
Distribution System, Overhead....	74,545.75	95,734.86	10,000.92	11,755.22	13,544.15
Dist. System, Underground.....					
Line Transformers.....	38,041.01	49,826.94	1,357.92	1,819.08	3,503.27
Meters.....	41,773.47	50,361.08	962.80	1,671.65	4,222.71
Street Light Equipment, Regular....	7,810.38	7,853.65	509.78	509.78	826.98
Street Light Equip., Ornamental....	26,907.19	26,907.19			
Miscellaneous Construction Exp....	22,288.73	23,420.52	515.76	794.52	3,310.45
Steam or Hydraulic Plant.....					
Old Plant.....	22,940.00	22,940.00			10,785.11
Total Plant.....	308,797.74	362,181.38	13,347.18	16,550.25	43,931.14
Bank and Cash Balance.....	50.00	50.00		86.86	1,959.69
Securities and Investments.....					
Accounts Receivable.....	32,375.60	47,286.72	730.39	821.19	
Inventories.....	55,249.77	28,140.01			3,124.50
Sinking Fund on Local Debentures....					6,447.25
Equity in Hydro System.....		3,022.16			607.48
Equity in Rural Lines.....	83.94	103.46			
Other Assets.....	6,387.11				
Total Assets.....	402,944.16	440,783.73	14,077.57	17,458.30	56,070.06
Deficit.....					
Total.....	402,944.16	440,783.73	14,077.57	17,458.30	56,070.06
LIABILITIES					
Debenture Balance.....	301,701.50	296,854.25	10,191.44	12,917.12	40,500.00
Accounts Payable.....	17,477.73	22,377.56	2,626.90	1,571.29	376.92
Bank Overdraft.....	23,004.52	22,229.38	399.80		
Other Liabilities.....					
Total Liabilities.....	342,183.75	341,461.19	13,218.14	14,488.41	40,876.92
RESERVES					
Reserve for Depreciation.....	26,890.00	36,940.00	309.76	941.76	6,626.00
Reserve for Equity in H.E.P.C. Sys....		3,022.16			607.48
Res. for Equity in H.E.P.C. (Rural)....	83.94	103.46			
Total Reserves.....	26,973.94	40,065.62	309.76	941.76	7,233.48
SURPLUS					
Debentures Paid.....	13,274.40	18,121.65	158.56	432.88	
Local Sinking Fund.....					6,447.25
Additional Operating Surplus.....	20,512.07	41,135.27	391.11	1,595.25	1,512.41
Total Surplus.....	33,786.47	59,256.92	549.67	2,028.13	7,959.66
Total Liabilities—Res. and Surplus....	402,944.16	440,783.73	14,077.57	17,458.30	56,070.06
Percentage of Net Debt to Total Assets.....	84.9	77.4	93.8	83.0	73.7

“ A ”—Continued

of Hydro Municipalities as at December 31st, 1921

Clinton	Comber		Dashwood		Delaware	
	P.V.		P.V.		P.V.	
1921	1920	1921	1920	1921	1920	1921
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
7,738.47						
14,364.10	4,353.62	4,398.98	1,828.02	1,828.02	2,155.85	2,177.09
3,503.27	2,440.29	2,395.14	953.68	953.68	216.75	216.75
4,838.85	1,013.80	1,286.45	884.50	884.50	433.90	503.14
907.82	199.55	199.55	189.00	189.00	106.93	106.93
3,312.45	957.54	957.54	291.87	291.87	203.81	203.81
10,784.59						
45,449.55	8,964.80	9,237.66	4,147.07	4,147.07	3,117.24	3,207.72
3,707.94	183.57	1,218.26	266.31	240.76	491.86	283.20
578.81	332.22	19.25	423.58	25.24	1,254.33	1,505.60
2,554.72		58.44				
7,419.74						
1,213.75		368.01				73.12
60,924.51	9,480.59	10,901.62	4,836.96	4,413.07	4,863.43	5,069.64
	3,208.09	1,640.41			66.90	
60,924.51	12,688.68	12,542.03	4,836.96	4,413.07	4,930.33	5,069.64
40,500.00	6,535.42	6,225.17	3,196.51	3,138.38	3,590.42	3,509.71
	3,937.68	3,055.02		116.59	337.33	154.27
40,500.00	10,473.10	9,280.19	3,196.51	3,254.97	3,927.75	3,663.98
8,116.00	1,051.00	1,419.00	461.00	633.00	593.00	734.00
1,213.75		368.01				73.12
9,329.75	1,051.00	1,787.01	461.00	633.00	593.00	807.12
	1,164.58	1,474.83	203.49	261.62	409.58	490.29
7,419.74			975.96	263.48		108.25
3,675.02						
11,094.76	1,164.58	1,474.83	1,179.45	525.10	409.58	598.54
60,924.51	12,688.68	12,542.03	4,836.96	4,413.07	4,930.33	5,069.64
66.4	82.5	73.9	66.1	73.7	80.7	72.2

STATEMENT

Comparative Balance Sheets of Electric Departments

NIAGARA SYSTEM—Continued

Municipality Population	Dereham Township		Dorchester P.V.		Drayton
	1920	1921	1920	1921	1920
	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
ASSETS					
Lands and Buildings.....					
Sub-Station Equipment.....					
Distribution System, Overhead....	8,974.86	9,500.75	3,027.41	3,356.54	5,639.12
Dist. System, Underground.....					
Line Transformers.....	11,317.74	11,317.74	1,519.89	1,964.01	1,480.35
Meters.....	3,012.84	3,012.84	1,159.13	1,357.42	1,772.23
Street Light Equipment, Regular.....			212.34	212.34	567.13
Street Light Equip., Ornamental.....					
Miscellaneous Construction Exp....	483.26	483.26	328.41	328.41	388.37
Steam or Hydraulic Plant.....					
Old Plant.....					
Total Plant.....	23,788.70	24,314.59	6,247.18	7,218.72	9,847.20
Bank and Cash Balance.....	2,684.40	627.03	18.86	321.72	1,609.50
Securities and Investments.....					
Accounts Receivable.....	90.13	300.00	1,444.54	973.81	
Inventories.....					43.95
Sinking Fund on Local Debentures.....					
Equity in Hydro System.....			67.33	151.24	
Equity in Rural Lines.....	1,509.96	2,096.72			
Other Assets.....					
Total Assets.....	28,073.19	27,338.34	7,777.91	8,665.49	11,500.65
Deficit.....	2,020.51	4,214.19			
Total.....	30,093.70	31,552.53	7,777.91	8,665.49	11,500.65
LIABILITIES					
Debenture Balance.....	20,703.38	20,703.38	3,942.38	3,859.78	9,117.46
Accounts Payable.....	5,768.36	4,445.43		36.91	129.89
Bank Overdraft.....					
Other Liabilities.....			1.00		
Total Liabilities.....	26,471.74	25,148.81	3,943.38	3,896.69	9,247.35
RESERVES					
Reserve for Depreciation.....	2,112.00	4,307.00	1,264.00	1,446.70	1,005.00
Reserve for Equity in H.E.P.C. Sys.....			67.33	151.24	
Res. for Equity in H.E.P.C. (Rural).....	1,509.96	2,096.72			
Total Reserves.....	3,621.96	6,403.72	1,331.33	1,597.94	1,005.00
SURPLUS					
Debentures Paid.....			357.62	440.22	382.54
Local Sinking Fund.....					
Additional Operating Surplus.....			2,145.58	2,730.64	865.76
Total Surplus.....			2,503.20	3,170.86	1,248.30
Total Liabilities—Res. and Surplus.....	30,093.70	31,552.53	7,777.91	8,665.49	11,500.65
Percentage of Net Debt to Total Assets.....	94.2	92.0	51.1	44.9	80.4

“ A ”—Continued

of Hydro Municipalities as at December 31st, 1921

Drayton 602	Dresden 1,393		Drumbo P.V.		Dublin P.V.	
1921	1920	1921	1920	1921	1920	1921
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
	523.00	523.00			85.00	85.00
5,760.05	6,671.68	8,391.39	2,775.10	2,825.45	3,956.91	4,010.35
1,480.35	3,887.44	3,887.44	457.46	457.46	660.75	660.75
1,821.29	3,921.50	4,073.30	818.00	913.68	520.46	520.46
567.13	774.82	828.62	129.89	129.89	417.71	417.71
388.37	408.09	408.09	235.58	235.58	751.91	762.41
	5,578.76	4,815.26				
10,017.19	21,765.29	22,927.10	4,416.03	4,562.06	6,392.74	6,456.68
2,404.38	635.87	2,770.49	160.98	217.86	516.46	48.18
			600.00	600.00		
122.02	752.72	1,681.29		375.10		168.05
	1,553.82	1,229.38			40.20	39.55
		366.75	122.56	237.45		
12,543.59	24,707.90	28,975.01	5,299.57	5,992.47	6,949.40	6,712.46
			429.11		358.44	1,061.58
12,543.59	24,707.70	28,975.01	5,728.68	5,992.47	7,307.84	7,774.04
8,960.35	12,611.49	11,850.79	4,039.28	3,948.51	4,377.34	5,348.14
			279.12	20.00	1,623.84	692.04
8,960.35	12,611.49	11,850.79	4,318.40	3,968.51	6,001.18	6,040.18
1,427.00	2,808.00	3,604.00	827.00	1,030.00	684.00	882.00
		366.75	122.56	237.45		
1,427.00	2,808.00	3,970.75	949.56	1,267.45	684.00	882.00
539.65	3,626.76	4,387.46	460.72	551.49	622.66	851.86
1,616.59	5,661.45	8,766.01		205.02		
2,156.24	9,288.21	13,153.47	460.72	756.51	622.66	851.86
12,543.59	24,707.70	28,975.01	5,728.68	5,992.47	7,307.84	7,774.04
71.5	51.0	40.8	83.4	66.3	86.3	90.1

STATEMENT

Comparative Balance Sheets of Electric Departments

**NIAGARA
SYSTEM—Continued**

Municipality Population	Dundas 5,054		Dunville 3,569		Dutton 870
	1920	1921	1920	1921	1920
ASSETS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Lands and Buildings.....	8,474.72	8,519.52	3,379.78	3,379.78	.....
Sub-Station Equipment.....	5,748.62	6,624.07	16,916.68	16,916.68	.....
Distribution System, Overhead....	44,618.51	44,822.49	24,618.14	25,659.26	6,138.21
Dist. System, Underground.....	.....	.....	.....	.....	.....
Line Transformers.....	12,084.36	12,435.36	7,277.73	7,507.59	1,856.15
Meters.....	14,245.84	14,815.28	4,819.17	5,385.18	2,383.58
Street Light Equipment, Regular..	1,689.02	1,736.00	2,320.25	2,320.25	441.01
Street Light Equip., Ornamental..	.....	.....	4,767.47	4,767.47	.....
Miscellaneous Construction Exp..	6,669.34	6,041.84	4,775.12	4,852.51	288.17
Steam or Hydraulic Plant.....	.....	.....	.....	.....	.....
Old Plant.....	1,867.38	1,867.38	10,742.62	10,717.62	.....
Total Plant.....	95,397.79	96,861.94	79,616.96	81,506.34	11,107.12
Bank and Cash Balance.....	1,461.63	2,654.72	.....	.....	1,469.22
Securities and Investments.....	.....	.....	.....	.....	2,000.00
Accounts Receivable.....	1,090.57	2,635.53	1,978.37	2,025.65	477.82
Inventories.....	2,699.64	1,748.53	714.11	759.76	200.20
Sinking Fund on Local Debentures	.....	.....	.....	.....	.....
Equity in Hydro System.....	4,051.02	5,012.03	.....	.....	.....
Equity in Rural Lines.....	.....	.....	.....	.....	.....
Other Assets.....	.....	.....	.....	.....	.....
Total Assets.....	104,700.65	108,912.75	82,309.44	84,291.75	15,254.36
Deficit.....	.....	.....	.....	.....	.....
Total.....	104,700.65	108,912.75	82,309.44	84,291.75	15,254.36
LIABILITIES					
Debenture Balance.....	46,092.37	44,971.55	62,409.16	61,395.21	7,955.01
Accounts Payable.....	5,222.81	1,764.92	9,100.11	9,844.11	.....
Bank Overdraft.....	.....	.....	1,729.41	1,258.70	.....
Other Liabilities.....	.....	.....	.....	.....	10.00
Total Liabilities.....	51,315.18	46,736.47	73,238.68	72,498.02	7,965.01
RESERVES					
Reserve for Depreciation.....	24,410.70	27,714.13	4,550.00	7,079.56	1,985.00
Reserve for Equity in H.E.P.C. Sys	4,051.02	5,012.03	.....	.....	.....
Res. for Equity in H.E.P.C. (Rural)	.....	.....	.....	.....	.....
Total Reserves.....	28,461.72	32,726.16	4,550.00	7,079.56	1,985.00
SURPLUS					
Debentures Paid.....	6,907.63	8,028.45	3,090.84	4,104.79	452.48
Local Sinking Fund.....	.....	.....	.....	.....	.....
Additional Operating Surplus....	18,016.12	21,421.67	1,429.92	609.38	4,851.87
Total Surplus.....	24,923.75	29,450.12	4,520.76	4,714.17	5,303.35
Total Liabilities—Res. and Surplus	104,700.65	108,912.75	82,309.44	84,291.75	15,254.36
Percentage of Net Debt to Total Assets.....	50.9	42.9	88.9	86.0	52.2

“ A ”—Continued

of Hydro Municipalities as at December 31st, 1921

Dutton	Elmira 2,400		Elora 1,199		Embro 463	
1921	1920	1921	1920	1921	1920	1921
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
.....	4,013.41	3,837.29	.....	.....	.....	.....
6,571.24	14,148.87	15,141.97	10,660.98	11,267.83	5,789.81	5,789.81
2,032.78	5,113.68	5,525.68	4,596.11	4,733.89	1,236.92	1,236.92
2,643.61	5,009.48	5,902.29	2,629.24	3,070.86	989.78	1,161.49
513.51	673.53	713.14	501.34	501.34	209.29	209.29
288.17	2,076.74	2,359.90	926.18	926.18	69.45	69.45
.....	2,295.52	2,325.08	1,425.47	1,425.47	429.25	429.25
12,049.31	33,331.23	35,805.35	20,739.32	21,925.57	8,647.58	8,896.21
1,740.45	246.96	1,135.68	334.64	324.53	298.23	248.55
2,000.00	.....	.....	.....	.....	1,000.00	1,000.00
31.29	1,301.24	1,984.97	972.71	1,195.03	.....	.....
217.60	2,154.84	1,642.63	1,335.52	878.77	.....	31.82
287.89	1,207.67	1,880.69	600.52	1,333.44	349.04	662.38
.....	.....	.....	92.75	110.46	.....	.....
16,326.54	38,241.94	42,449.32	24,075.46	25,767.80	10,294.85	10,838.96
.....	.....	.....	.....	.....	2,874.53	2,006.60
16,326.54	38,241.94	42,449.32	24,075.46	25,767.80	13,079.38	12,845.56
7,785.74	17,876.54	17,496.15	10,920.46	10,519.05	7,296.11	7,079.99
.....	600.00	.....	.....	.....	3,277.34	2,322.18
.....
7,785.74	14,476.54	17,496.15	10,920.46	10,519.05	10,573.45	9,402.17
2,515.00	6,054.00	7,471.00	3,857.00	4,794.00	1,953.00	2,361.00
287.89	1,207.67	1,880.69	600.52	1,333.44	349.04	662.38
.....	.....	.....	92.75	110.46	.....	.....
2,802.89	7,261.67	9,351.69	4,550.27	6,237.90	2,302.04	3,023.38
621.75	2,123.46	2,503.85	2,079.54	2,480.95	203.89	420.01
5,116.16	10,380.27	13,097.63	6,525.19	6,529.90	.....	.....
5,737.91	12,503.73	15,601.48	8,604.73	9,010.85	203.89	420.01
16,326.54	38,241.94	42,449.32	24,075.46	25,767.80	13,079.38	12,845.56
47.7	49.8	41.2	46.5	40.8	106.3	86.7

STATEMENT

Comparative Balance Sheets of Electric Departments

NIAGARA SYSTEM—Continued

Municipality	Etobicoke		Exeter		Fergus
Population	Township		1,458		1,815
	1920	1921	1920	1921	1920
	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
ASSETS					
Lands and Buildings.....					
Sub-Station Equipment.....					
Distribution System, Overhead.....	11,724.32	45,656.59	12,722.45	13,004.36	15,321.29
Dist. System, Underground.....					
Line Transformers.....	2,260.45	13,064.56	3,416.71	3,418.11	5,602.98
Meters.....	7,000.02	17,469.36	3,639.27	4,108.96	5,011.28
Street Light Equipment, Regular.....	419.16	2,076.11	732.08	732.08	1,201.02
Street Light Equip., Ornamental.....					
Miscellaneous Construction Exp.....	1,540.42	3,342.10	1,549.48	1,549.48	615.37
Steam or Hydraulic Plant.....					
Old Plant.....	34,444.23				2,546.59
Total Plant.....	57,388.60	81,608.72	22,059.99	22,812.99	30,298.53
Bank and Cash Balance.....			1,784.35	4,324.90	
Securities and Investments.....	8,000.00		3,000.00	3,000.00	
Accounts Receivable.....	3,884.53	7,790.44	382.42	1,451.31	71.00
Inventories.....	214.44	283.77	3,309.93	1,899.86	3,249.82
Sinking Fund on Local Debentures.....					
Equity in Hydro System.....					540.12
Equity in Rural Lines.....	4,450.09	5,611.05			
Other Assets.....					
Total Assets.....	73,937.66	95,293.98	30,536.69	33,489.06	34,159.47
Deficit.....					
Total.....	73,937.66	95,293.98	30,536.69	33,489.06	34,159.47
LIABILITIES					
Debenture Balance.....	42,612.55	41,158.81	17,684.53	17,149.70	14,478.51
Accounts Payable.....	337.99			1,120.95	1,655.10
Bank Overdraft.....	1,974.18	10,136.64			7,173.29
Other Liabilities.....		519.50			
Total Liabilities.....	44,924.72	51,814.95	17,684.53	18,270.65	23,306.90
RESERVES					
Reserve for Depreciation.....	13,774.82	19,154.82	3,105.00	3,964.00	4,605.00
Reserve for Equity in H.E.P.C. Sys.....					540.12
Res. for Equity in H.E.P.C.(Rural).....	4,450.09	5,611.05			
Total Reserves.....	18,224.91	24,765.87	3,105.00	3,964.00	5,145.12
SURPLUS					
Debentures Paid.....	3,115.60	4,841.19	2,315.52	2,850.35	1,521.49
Local Sinking Fund.....					
Additional Operating Surplus.....	7,672.43	13,871.97	7,431.64	8,404.06	4,185.96
Total Surplus.....	10,788.03	18,712.16	9,747.16	11,254.41	5,707.45
Total Liabilities—Res. and Surplus.....	73,937.66	95,293.98	30,536.69	33,489.06	34,159.47
Percentage of Net Debt to Total Assets.....	60.7	54.3	57.9	54.5	69.3

“A”—Continued

of Hydro Municipalities as at December 31st, 1921

Fergus	Forest 1,386		Galt 13,092		Georgetown 2,554	
1921	1920	1921	1920	1921	1920	1921
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
.....	4,500.00	4,500.00	23,677.96	134,697.10	12.00	12.00
.....	.....	.....	50,745.05	108,663.85	.....	.....
15,553.46	11,315.91	12,162.06	139,560.62	163,173.28	19,051.20	20,530.84
.....
5,602.98	2,761.27	2,761.27	26,223.50	34,962.04	7,456.81	7,466.81
5,563.45	5,330.89	5,888.36	40,339.95	46,543.51	6,524.81	6,826.26
1,249.57	1,674.28	1,824.15	8,990.75	9,198.82	985.39	1,058.68
.....	.....	.....	56,882.32	62,842.77	.....	.....
645.37	102.30	303.85	13,834.73	16,942.05	1,397.65	1,458.15
.....
2,546.59	11,084.87	11,084.87	.....	.....	2,209.80	2,209.80
.....
31,161.42	36,769.52	38,524.56	360,254.79	577,023.42	37,647.66	39,562.54
.....	1,322.68	459.71	25.00	25.00	1,546.52	224.64
.....	.....	2,000.00	.....	350.00	14,169.90	15,064.63
440.37	753.79	447.01	29,176.04	203,243.32	3,665.48	2,580.44
4,694.88	4,377.85	4,376.77	5,183.15	35,536.21	1,757.77	1,160.20
.....	.....	.....	57,555.79	66,629.05	.....	.....
1,072.85	.....	.....	14,922.39	19,217.32	2,643.67	4,163.80
.....	.....	.....	.....	.....	1,047.39	1,249.28
.....	.....	.....	1,394.70	2,281.67	.....	.....
.....
37,369.52	43,223.84	45,808.05	468,511.86	904,305.99	62,478.39	64,005.53
.....
37,369.52	43,223.84	45,808.05	468,511.86	904,305.99	62,478.39	64,005.53
.....
14,173.94	26,975.24	25,611.24	188,579.18	388,579.18	17,876.51	17,496.12
1,107.75	834.11	270.12	3,050.00	3,859.04	.....	.....
9,976.41	.....	.....	33,052.56	232,649.78	.....	.....
.....
25,258.10	27,809.35	25,881.36	224,681.74	625,088.00	17,876.51	17,496.12
.....
5,090.00	3,037.00	4,208.00	66,962.65	75,610.58	10,646.00	12,365.63
1,072.85	.....	.....	14,922.39	19,217.32	2,643.67	4,163.80
.....	.....	.....	.....	.....	1,047.39	1,249.28
.....
6,162.85	3,037.00	4,208.00	81,885.04	94,827.90	14,337.06	17,778.71
.....
1,826.06	7,424.76	8,788.76	.....	.....	2,123.49	2,503.88
.....	.....	.....	57,555.79	66,629.05	.....	.....
4,122.51	4,952.73	6,929.93	104,389.29	117,761.04	28,141.33	26,226.82
.....
5,948.57	12,377.49	15,718.69	161,945.08	184,390.09	30,264.82	28,730.70
.....
37,369.52	43,223.84	45,808.05	468,511.86	904,305.99	62,478.39	64,005.53
.....
67.7	64.3	56.5	49.5	69.2	29.8	27.4

STATEMENT

Comparative Balance Sheets of Electric Departments

NIAGARA SYSTEM—Continued

Municipality	Glencoe		Goderich		Grantham
Population	779		4,287		Twp.
	1920	1921	1920	1921	1920
	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
ASSETS					
Lands and Buildings.....			12,915.81	12,915.81	
Sub-Station Equipment.....			9,989.28	9,795.28	
Distribution System, Overhead...	13,652.05	14,073.20	35,589.05	37,174.31	7,008.86
Dist. System, Underground.....					
Line Transformers.....	2,662.85	2,674.83	9,900.99	10,407.39	3,095.44
Meters.....	2,030.39	2,352.99	9,573.44	10,481.96	1,724.08
Street Light Equipment, Regular...	1,630.56	1,630.56	4,170.27	4,231.71	
Street Light Equip., Ornamental...					
Miscellaneous Construction Exp...	3,179.01	2,991.70	4,005.81	4,005.81	267.30
Steam or Hydraulic Plant.....					
Old Plant.....			14,622.15	14,622.15	
Total Plant.....	23,154.86	23,723.28	100,766.80	103,634.42	12,295.68
Bank and Cash Balance.....	506.04	1,452.20	3,901.66	3,671.23	329.55
Securities and Investments.....					
Accounts Receivable.....	200.32	489.52	4,684.47	7,105.53	1,838.28
Inventories.....		132.87	340.36	827.00	
Sinking Fund on Local Debentures.....		660.28	4,228.20	4,513.23	1,520.88
Equity in Hydro System.....			1,894.95	4,099.32	
Equity in Rural Lines.....			296.63	350.14	2,942.64
Other Assets.....					
Total Assets.....	23,861.22	26,458.15	116,113.07	124,200.87	18,927.03
Deficit.....					1,925.92
Total.....	23,861.22	26,458.15	116,113.07	124,200.87	20,852.95
LIABILITIES					
Debenture Balance.....	19,980.82	19,596.65	43,644.30	41,521.68	10,899.62
Accounts Payable.....	2,179.53	1,749.42	10,225.30	11,443.26	3,835.83
Bank Overdraft.....					
Other Liabilities.....					
Total Liabilities.....	22,160.35	21,346.07	53,869.60	52,964.94	14,735.45
RESERVES					
Reserve for Depreciation.....		806.00	21,160.00	25,420.00	1,553.60
Reserve for Equity in H.E.P.C. Sys.....			1,894.95	4,099.32	
Res. for Equity in H.E.P.C. (Rural).....			296.63	350.14	2,942.64
Total Reserves.....		806.00	23,351.58	29,869.46	4,496.24
SURPLUS					
Debentures Paid.....	132.06	516.23	12,443.75	14,566.37	100.38
Local Sinking Fund.....		660.28		4,513.23	1,520.88
Additional Operating Surplus.....	1,568.81	3,129.57	22,219.94	22,286.87	
Total Surplus.....	1,700.87	4,306.08	34,663.69	41,366.47	1,621.26
Total Liabilities—Res. and Surplus.....	23,861.22	26,458.15	116,113.07	124,200.87	20,852.95
Percentage of Net Debt to Total Assets.....	92.8	80.5	47.1	42.8	77.8

"A"—Continued

of Hydro Municipalities as at December 31st, 1921

Grantham Township	Granton P.V.		Guelph 17,922		Hagersville 1,139	
1921	1920	1921	1920	1921	1920	1921
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
			12,004.40	12,004.40		
			71,377.40	80,154.72		833.52
8,410.77	3,025.36	3,065.64	83,869.45	98,491.64	8,685.69	12,145.20
4,282.71	623.16	623.16	25,882.14	50,534.80	2,244.61	2,768.60
1,934.80	825.74	908.55	41,343.73	46,647.51	3,264.71	4,261.59
	149.27	149.27	26,126.46	28,404.89	608.30	608.30
267.30	110.28	110.28	10,974.26	11,950.43	140.20	140.20
14,895.58	4,734.81	4,856.90	271,577.84	328,188.39	14,943.51	20,757.41
807.60	645.24	1,313.65	37.50		1,736.78	240.54
			25,000.00	5,000.00	4,500.00	4,500.00
2,928.11	80.00	291.92	37,291.72	27,658.69	1,014.14	1,946.94
			32,179.70	34,070.32	106.13	92.45
1,847.68			31,180.06	19,573.79		
			13,513.34	17,731.62	1,050.85	1,303.07
3,569.57						
24,048.54	5,460.05	6,462.47	410,780.16	432,260.31	23,351.41	28,840.41
58.97						
24,107.51	5,460.05	6,462.47	410,780.16	432,260.31	23,351.41	28,840.41
10,793.72	3,250.44	3,191.19	113,569.63	95,884.91	6,853.28	6,645.16
5,774.36	692.15	580.03	10,677.84	18,550.40		4,330.64
			6,284.45	12,531.67		
16,568.08	3,942.59	3,771.22	130,531.92	126,966.98	6,853.28	10,975.80
1,915.90	732.00	949.00	61,515.25	70,247.76	2,606.46	869.98
3,569.57			13,513.34	17,731.62	1,050.85	1,303.07
5,485.47	732.00	949.00	75,028.57	87,979.38	3,657.31	2,173.05
206.28	249.56	308.81	31,430.36	49,115.08	1,146.72	1,354.84
1,847.68			31,180.06	19,573.79		
	535.90	1,433.44	142,609.25	148,625.08	11,694.10	14,336.72
2,053.96	785.46	1,742.25	205,219.67	217,313.95	12,840.82	15,691.56
24,107.51	5,460.05	6,462.47	410,780.16	432,260.31	23,351.41	28,840.41
68.8	72.2	58.3	32.8	29.4	30.7	38.1

STATEMENT

Comparative Balance Sheets of Electric Departments

NIAGARA SYSTEM—Continued

Municipality	Hamilton		Harriston		Hensall
Population	114,766		1,326		687
	1920	1921	1920	1921	1920
	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
ASSETS					
Lands and Buildings.....	93,842.46	102,950.78			
Sub-Station Equipment.....	101,431.55	150,916.97	600.00	600.00	
Distribution System, Overhead...	462,336.84	496,895.62	8,806.06	9,113.62	6,692.81
Dist. System, Underground.....	164,185.07	182,013.14			
Line Transformers.....	198,609.11	219,842.43	3,762.20	3,762.20	2,250.20
Meters.....	225,195.39	252,317.69	3,456.55	3,534.90	1,839.39
Street Light Equipment, Regular.	95,837.76	96,923.91	350.00	350.00	436.67
Street Light Equip., Ornamental.					
Miscellaneous Construction Exp..	143,571.41	143,356.86	458.07	458.07	447.50
Steam or Hydraulic Plant.....					
Old Plant.....			1,130.83	1,130.83	400.00
Total Plant.....	1,485,009.59	1,645,217.40	18,563.71	18,949.62	12,067.22
Bank and Cash Balance.....					736.26
Securities and Investments.....					
Accounts Receivable.....	141,845.81	179,456.99	2,385.96	3,107.31	393.00
Inventories.....	60,330.35	91,235.96	3,104.86	650.00	244.03
Sinking Fund on Local Debentures	176,935.55	207,194.80			
Equity in Hydro System.....	38,422.27	51,280.92			
Equity in Rural Lines.....					
Other Assets.....	4,624.13	4,645.35			
Total Assets.....	1,907,167.80	2,179,031.42	24,054.53	22,706.93	13,440.51
Deficit.....			986.67		479.35
Total.....	1,907,167.80	2,179,031.42	25,041.20	22,706.93	13,919.86
LIABILITIES					
Debenture Balance.....	1,002,838.34	996,537.12	10,711.78	10,107.84	11,345.42
Accounts Payable.....	114,199.31	120,607.21	6,607.20	2,111.38	147.86
Bank Overdraft.....	81,173.57	251,428.79	2,713.97	1,686.69	
Other Liabilities.....	30,258.64	31,705.70		1,249.81	
Total Liabilities.....	1,228,470.36	1,400,278.82	20,032.95	15,155.72	11,493.28
RESERVES					
Reserve for Depreciation.....	303,187.67	353,718.56	2,402.00	3,185.00	1,772.00
Reserve for Equity in H.E.P.C. Sys	38,422.27	51,280.92			
Res. for Equity in H.E.P.C. (Rural)		4,782.00			
Total Reserves.....	341,609.94	409,781.48	2,402.00	3,185.00	1,772.00
SURPLUS					
Debentures Paid.....	17,161.16	23,462.88	2,606.25	3,210.19	654.58
Local Sinking Fund.....	176,935.55	207,194.80			
Additional Operating Surplus.....	142,990.79	138,313.44		1,156.02	
Total Surplus.....	337,087.50	368,971.12	2,606.25	4,366.21	654.58
Total Liabilities—Res. and Surplus	1,907,167.80	2,179,031.42	25,041.20	22,706.93	13,919.86
Percentage of Net Debt to Total Assets.....	65.7	64.3	83.2	66.7	85.5

“A”—Continued

of Hydro Municipalities as at December 31st, 1921

Hensall	Hespeler		Highgate		Ingersoll	
	3,059		403		5,422	
1921	1920	1921	1920	1921	1920	1921
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
.....	3,499.23	3,504.43	.....	.....	3,057.57	6,357.57
.....	8,507.47	8,507.47	.....	.....	10,302.31	10,302.31
6,811.02	10,658.18	17,858.88	3,618.95	3,640.97	36,614.20	38,535.91
.....
2,250.85	6,772.56	9,149.16	1,488.37	1,488.37	10,602.77	12,458.77
1,928.71	6,845.31	7,523.93	1,070.03	1,124.45	16,104.36	17,504.67
436.67	1,452.01	1,572.22	282.15	294.56	2,573.22	2,739.29
.....	.....	.....	.....	.....	4,597.59	4,597.59
447.50	93.08	93.08	453.85	476.51	8,839.55	8,629.55
.....
400.00	3,000.00	2,230.00	.....	.....	20,607.25	20,607.25
.....
12,274.75	40,827.84	50,439.17	6,913.35	7,024.86	113,298.82	121,732.91
.....
2,066.35	.....	.....	526.80	696.91	.....	.....
.....	1,586.40	1,088.09	.....	.....	20,500.00	20,500.00
74.00	7,629.36	481.09	53.33	307.50	17,023.23	22,105.55
20.00	.....	.....	47.80	87.47	60,508.60	1,304.87
.....	.....	.....	.....	.....	20,191.65	22,650.57
.....	2,380.49	3,045.33	.....	.....	6,205.72	7,978.83
.....
.....
14,435.10	52,424.09	55,053.68	7,541.28	8,116.74	183,278.02	196,272.73
246.83	.....	.....	.....	.....	.....	.....
.....
14,681.93	52,424.09	55,053.68	7,541.28	8,116.74	183,278.02	196,272.73
.....
.....
11,116.72	16,795.15	15,264.21	4,675.63	4,584.15	79,800.00	79,800.00
385.93	.....	761.73	527.55	.....	1,973.68	2,510.22
.....	383.78	4,080.52	.....	.....	651.79	8,883.37
.....	.....	.....	.....	.....	4,597.59	4,597.59
.....
11,502.65	17,178.93	20,106.46	5,203.18	4,584.15	7,023.06	95,791.18
.....
.....
2,296.00	10,996.56	10,127.76	767.00	1,056.00	21,204.04	20,139.63
.....	2,380.49	3,045.33	.....	.....	6,205.72	7,978.83
.....
.....
2,296.00	13,377.05	13,173.09	767.00	1,056.00	27,409.76	28,118.46
.....
.....
883.28	15,775.36	17,306.30	324.37	415.85	.....	.....
.....	.....	.....	.....	.....	20,191.65	22,650.57
.....	6,092.75	4,467.83	1,246.73	2,060.74	48,653.55	49,712.52
.....
883.28	21,868.11	21,774.13	1,571.10	2,476.59	68,845.20	72,363.09
.....
14,681.93	52,424.09	55,053.68	7,541.28	8,116.74	183,278.02	196,272.73
.....
.....
78.4	34.3	36.6	68.9	56.5	49.1	48.7

STATEMENT

Comparative Balance Sheets of Electric Departments

NIAGARA SYSTEM—Continued

Municipality	Kitchener		Lambeth		Listowel
Population	23,027		P.V.		2,571
	1920	1921	1920	1921	1920
	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
ASSETS					
Lands and Buildings.....	40,401.32	46,364.28			1,229.07
Sub-Station Equipment.....	94,199.39	117,036.88			
Distribution System, Overhead....	118,809.48	132,947.30	2,839.38	2,911.58	23,351.60
Dist. System, Underground.....	9,444.68	9,444.68			
Line Transformers.....	66,184.87	74,881.00	288.86	288.86	10,740.59
Meters.....	71,021.32	84,368.77	1,129.02	1,129.02	7,646.40
Street Light Equipment, Regular..	22,293.45	25,689.11	159.37	159.37	1,238.10
Street Light Equip., Ornamental....					5,780.22
Miscellaneous Construction Exp....	7,097.29	9,334.03	214.73	214.73	1,314.01
Steam or Hydraulic Plant.....					
Old Plant.....	52,536.31	52,536.31			4,750.70
Total Plant.....	482,988.11	552,602.36	4,631.36	4,703.56	56,050.69
Bank and Cash Balance.....	1,592.29	733.66	1,317.92	1,808.81	862.92
Securities and Investments.....	9,728.16	31,440.00			
Accounts Receivable.....	53,097.48	20,686.50	74.64	77.33	3,764.59
Inventories.....	14,585.95	14,729.57			1,217.51
Sinking Fund on Local Debentures					
Equity in Hydro System.....	25,305.07	33,460.08		155.50	
Equity in Rural Lines.....					
Other Assets.....					
Total Assets.....	587,297.06	653,652.17	6,023.92	6,745.20	61,895.71
Deficit.....					
Total.....	587,297.06	653,652.17	6,023.92	6,745.20	61,895.71
LIABILITIES					
Debenture Balance.....	202,977.53	193,733.03	3,714.79	3,647.08	26,918.40
Accounts Payable.....	16,362.54	45,144.18	465.53	290.60	12,799.29
Bank Overdraft.....		14,504.35			
Other Liabilities.....					5,742.30
Total Liabilities.....	219,340.07	253,381.56	4,180.32	3,937.68	45,459.99
RESERVES					
Reserve for Depreciation.....	106,184.00	117,678.28	947.00	1,066.68	5,472.00
Reserve for Equity in H.E.P.C. Sys	25,305.07	33,460.08		155.50	
Res. for Equity in H.E.P.C.(Rural)					
Total Reserves.....	131,489.07	151,138.36	947.00	1,222.18	5,472.00
SURPLUS					
Debentures Paid.....	97,172.47	106,416.97	285.21	352.92	7,271.49
Local Sinking Fund.....					
Additional Operating Surplus....	139,295.45	142,715.28	611.39	1,232.42	3,692.23
Total Surplus.....	236,467.92	249,132.25	896.50	1,585.34	10,963.72
Total Liabilities—Res. and Surplus	587,297.06	653,652.17	6,023.92	6,745.20	61,895.71
Percentage of Net Debt to					
Total Assets.....	39.0	38.7	69.3	58.4	73.4

“ A ”—Continued.

of Hydro Municipalities as at December 31st, 1921

Listowel	London 59,281		London Township		Louth Township	
1921	1920	1921	1920	1921	1920	1921
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
1,229.07	233,862.76	293,682.97				
25,765.67	263,548.17	315,050.85				
	447,189.28	496,394.63	2,934.70	2,934.70	1,377.71	1,482.84
	11,003.39	11,033.39				
11,929.62	70,672.79	85,915.04	1,114.40	1,114.40	1,673.70	2,029.62
9,334.60	182,957.14	203,142.41	1,066.80	1,066.80	578.76	624.92
1,238.10	30,927.41	31,895.40				
5,780.22	11,428.08	11,767.36				
1,362.71	72,362.43	74,340.76	451.74	451.74		
4,750.70			1,733.80	1,733.80		
61,390.69	1,323,951.45	1,523,192.81	7,301.44	7,301.44	3,630.17	4,137.38
1,860.95	8,832.13	9,441.64	212.06	212.06	541.16	94.02
5,286.47	325,568.64	272,019.01				593.54
180.00	58,559.74	77,250.14				
	101,390.11	121,509.04				
	51,634.79	67,774.33			164.59	221.05
68,718.11	1,869,936.86	2,071,186.97	7,513.50	7,513.50	4,335.92	5,045.99
						370.09
68,718.11	1,869,936.86	2,071,186.97	7,513.50	7,513.50	4,335.92	5,416.08
33,723.05	812,332.34	930,799.79	7,296.12	7,080.00	1,902.44	1,851.55
6,936.43	103,409.36	154,870.95	13.50	13.50	1,869.62	2,996.93
	56,692.70					
5,742.30	14,968.90	2,235.86			126.84	
46,401.78	987,403.30	1,087,906.60	7,309.62	7,093.50	3,898.90	4,848.48
7,515.00	283,064.22	330,108.46			173.00	248.10
	51,634.79	67,774.33			164.59	221.05
7,515.00	334,699.01	397,882.79			337.59	469.15
9,466.84	59,567.66	66,100.21	203.88	420.00	47.56	98.45
	101,390.11	121,509.04				
5,334.49	386,876.78	397,788.33			51.87	
14,801.33	547,834.55	585,397.58	203.88	420.00	99.43	98.45
68,718.11	1,869,936.86	2,071,186.97	7,513.50	7,513.50	4,335.92	5,416.08
67.5	54.3	52.5	97.3	94.6	89.9	96.2

STATEMENT

Comparative Balance Sheets of Electric Departments

**NIAGARA
SYSTEM—Continued**

Municipality Population	Lucan 614		Lynden P.V.		Markham 941
	1920	1921	1920	1921	1920
ASSETS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Lands and Buildings			241.18	241.18	
Sub-Station Equipment					
Distribution System, Overhead... 7,082.38		7,277.13	2,679.72	2,720.56	7,885.78
Dist. System, Underground					
Line Transformers	3,507.90	2,907.90	942.37	942.37	2,897.99
Meters	2,329.60	2,558.89	674.92	744.62	2,077.85
Street Light Equipment, Regular.. 372.54		372.54	163.30	163.30	281.78
Street Light Equip., Ornamental					
Miscellaneous Construction Exp.. 394.47		394.47	193.57	193.57	830.10
Steam or Hydraulic Plant					
Old Plant	2,860.45	2,860.45			200.13
Total Plant	16,547.34	16,371.38	4,895.06	5,005.60	14,173.63
Bank and Cash Balance	326.30	1,959.99	184.22		
Securities and Investments		3,000.00	1,000.00		
Accounts Receivable	4,482.83	2,014.16		448.42	736.23
Inventories	26.05	111.51			
Sinking Fund on Local Debentures					
Equity in Hydro System		433.18		448.97	
Equity in Rural Lines	6.00	9.00			
Other Assets					
Total Assets	21,388.52	23,899.22	6,079.28	5,902.99	14,909.86
Deficit			794.34	225.46	
Total	21,388.52	23,899.22	6,873.62	6,128.45	14,909.86
LIABILITIES					
Debenture Balance	9,491.95	9,135.04	4,148.60	4,067.49	11,121.02
Accounts Payable	1,022.41		1,488.62		1,822.07
Bank Overdraft				66.48	177.58
Other Liabilities					
Total Liabilities	10,514.36	9,135.04	5,637.22	4,133.97	13,120.67
RESERVES					
Reserve for Depreciation	2,138.63	2,752.63	890.00	1,118.00	
Reserve for Equity in H.E.P.C. Sys		433.18		448.97	
Res. for Equity in H.E.P.C. (Rural) 6.00		9.00			
Total Reserves	2,144.63	3,194.81	890.00	1,566.97	
SURPLUS					
Debentures Paid	1,721.67	2,078.61	346.40	427.51	437.81
Local Sinking Fund					
Additional Operating Surplus	7,007.86	9,552.90			1,351.38
Total Surplus	8,729.53	11,631.51	346.40	427.51	1,789.19
Total Liabilities—Res. and Surplus	21,388.52	23,961.33	6,873.62	6,128.45	14,909.68
Percentage of Net Debt to Total Assets	49.1	38.2	92.7	70.2	89.0

“ A ”—Continued

of Hydro Municipalities as at December 31st, 1921

Markham	Merritton	Milton		Milverton		Newbury
	2,480	1,800		1,029		283
1921	1921	1920	1921	1920	1921	1921
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
	350.00			237.20	237.20	
	3,000.00	5,550.19	5,550.19			
8,205.04	10,814.64	12,026.50	12,155.85	7,045.44	7,251.71	5,408.07
3,398.26	2,629.94	5,393.08	5,737.93	2,884.56	5,080.18	1,049.04
2,705.75	5,876.02	4,979.55	5,242.12	1,900.92	2,553.05	661.52
335.51	1,407.25	959.87	986.67	541.10	562.24	765.45
1,016.01	2,457.51	2,526.23	2,526.23	557.93	557.93	485.13
61.03		4,065.85	4,065.85			754.39
15,721.60	26,535.36	35,501.27	36,264.84	13,167.15	16,242.31	9,123.60
	1,653.72	3,780.39	4,439.80	77.41		359.08
		2,000.00	2,000.00			
1,759.30	503.58	4,172.77	8,685.46	4,988.46	5,272.51	559.29
	130.75	5,353.53	1,239.30	15.53		
		1,895.63	1,971.45			
		97.88				
						34.48
17,480.90	28,823.41	52,801.47	54,600.85	18,248.55	21,514.82	10,076.45
17,480.90	28,823.41	52,801.47	54,600.85	18,248.55	21,514.82	10,076.45
10,520.84	4,643.10	14,202.32	13,308.68	7,979.12	7,622.97	9,440.04
674.39	317.70	2,012.37	776.73	988.76	1,482.20	125.72
751.21					908.66	
11,946.44	4,960.80	16,214.69	14,085.41	8,967.88	10,013.83	9,565.76
755.00	948.00	8,229.04	9,725.04	1,789.00	2,307.00	
		1,895.63	1,971.45			
		97.88				
755.00	948.00	10,222.55	11,696.49	1,789.00	2,307.00	
1,037.99	543.11	10,510.66	11,404.30	1,520.88	1,877.03	314.35
3,741.47	22,371.50	15,853.57	17,414.65	5,970.79	7,316.96	196.34
4,779.46	22,914.61	26,364.23	28,818.95	7,491.67	9,193.99	510.69
17,480.90	28,823.41	52,801.47	54,600.85	18,248.55	21,514.82	10,076.45
68.4	17.2	31.8	25.6	49.1	46.6	95.6

STATEMENT

Comparative Balance Sheets of Electric Departments

**NIAGARA
SYSTEM—Continued**

Municipality	Mimico		Mitchell		Moorefield
Population	4,187		1,686		P.V.
	1920	1921	1920	1921	1920
	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
ASSETS					
Lands and Buildings	98.30	98.30	5,737.10	7,922.78	
Sub-Station Equipment		50.18	9,034.86	10,441.48	
Distribution System, Overhead	28,104.19	31,795.20	10,898.81	13,341.40	2,598.73
Dist. System, Underground					
Line Transformers	6,201.05	9,844.66	4,450.21	5,651.14	857.72
Meters	9,834.93	11,900.69	5,032.56	6,543.48	577.00
Street Light Equipment, Regular	1,425.96	2,641.23	1,063.55	1,598.23	295.88
Street Light Equip., Ornamental				12.00	
Miscellaneous Construction Exp.	1,860.91	2,112.56			348.35
Steam or Hydraulic Plant					
Old Plant			1,500.00	1,500.00	
Total Plant	47,525.34	58,442.82	37,717.09	47,010.51	4,677.68
Bank and Cash Balance	130.92	599.13	2,838.50	3,016.99	669.71
Securities and Investments				2,000.00	
Accounts Receivable	4,083.22	402.75	2,499.04	2,060.92	125.04
Inventories	69.09	236.43	1,026.17	431.86	101.10
Sinking Fund on Local Debentures					
Equity in Hydro System	897.85	1,320.11	2,217.93	2,825.46	
Equity in Rural Lines					
Other Assets					
Total Assets	52,706.43	61,001.24	46,298.73	57,345.74	5,573.53
Deficit					16.06
Total	52,706.42	61,001.24	46,298.73	57,345.74	5,589.59
LIABILITIES					
Debenture Balance	21,570.98	20,684.34	3,879.85	7,183.45	4,100.95
Accounts Payable	111.92	6,055.95			740.59
Bank Overdraft					
Other Liabilities					
Total Liabilities	21,682.90	26,740.29	3,879.85	7,183.45	4,841.54
RESERVES					
Reserve for Depreciation	10,730.00	12,159.30	10,884.00	12,953.00	349.00
Reserve for Equity in H.E.P.C. Sys	897.85	1,320.11	2,217.93	2,825.46	
Res. for Equity in H.E.P.C. (Rural)					
Total Reserves	11,627.85	13,479.41	13,101.93	15,778.46	349.00
SURPLUS					
Debentures Paid	4,429.02	5,315.66	13,415.37	15,111.77	399.05
Local Sinking Fund					
Additional Operating Surplus	14,966.65	15,465.88	15,901.58	19,272.06	
Total Surplus	19,395.67	20,781.54	29,316.95	34,383.83	399.05
Total Liabilities—Res. and Surplus	52,706.42	61,001.24	46,298.73	57,345.74	5,589.59
Percentage of Net Debt to Total Assets	41.8	43.8	8.8	12.5	86.6

“ A ”—Continued

of Hydro Municipalities as at December 31st, 1921

Moorefield	Mount Brydges		New Hamburg		New Toronto	
	P.V.		1,401		2,850	
1921	1920	1921	1920	1921	1920	1921
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
			2,317.59	2,317.59		
			1,083.10	1,083.10		
2,601.73	2,702.22	2,757.54	9,640.40	11,253.95	27,875.65	36,313.38
857.72	641.25	641.25	4,084.29	4,084.29	6,871.11	9,459.84
577.00	980.89	1,125.89	4,057.18	4,527.65	8,055.41	9,948.09
295.88	120.09	120.09	1,149.43	1,149.43	708.67	2,567.53
348.35	143.82	143.82	1,001.70	1,001.70	1,378.82	2,320.33
			5,242.56	5,242.56		
4,680.68	4,588.27	4,788.59	28,576.25	30,660.27	44,889.66	60,609.17
326.47	1,368.98	1,468.92	287.87	488.91	18,749.75	25,327.64
204.56	575.53	1,064.00	2,314.60	24.17	28,581.14	3,689.67
110.00	34.00	125.01	7,070.68	6,881.82		956.20
		214.72	2,336.29	3,004.42	1,177.75	5,160.30
5,321.71	6,566.78	7,661.24	40,585.69	41,059.59	93,398.30	95,742.98
5,321.71	6,566.78	7,661.24	40,585.69	41,059.59	93,398.30	95,742.98
3,952.35	3,818.64	3,738.30	14,592.35	14,151.04	7,019.58	6,850.15
		67.84	2,153.69	396.67	2,902.44	8,304.76
						82.50
3,952.35	3,818.64	3,806.14	16,746.04	14,547.71	9,922.02	15,237.41
536.00	936.00	1,158.00	8,252.00	9,558.00	6,977.00	9,241.00
		214.72	2,336.29	3,004.42	1,177.75	5,160.30
536.00	936.00	1,372.72	10,588.29	12,562.42	8,154.75	14,401.30
547.65	401.36	481.70	3,136.73	3,578.04	980.42	1,149.85
285.71	1,410.78	2,000.68	10,114.63	10,371.42	74,341.11	64,954.42
833.36	1,812.14	2,482.38	13,251.36	13,999.46	75,321.53	66,104.27
5,321.71	6,566.78	7,661.24	40,585.69	41,059.59	93,398.30	95,742.98
74.3	58.1	49.6	43.7	35.5	10.7	15.9

STATEMENT

Comparative Balance Sheets of Electric Departments

NIAGARA SYSTEM—Continued

Municipality	Niagara Falls		Niagara-on-the-Lake		North
Population	14,805		1,863		Town-
	1920	1921	1920	1921	1920
	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
ASSETS					
Lands and Buildings	13,364.80	25,511.64	200.00	200.00	
Sub-Station Equipment	23,319.72	40,661.76	1,148.47	1,148.47	
Distribution System, Overhead	79,713.84	95,042.52	6,946.92	9,168.82	1,111.96
Dist. System, Underground					
Line Transformers	70,291.03	77,364.01	1,680.12	3,164.31	3,627.17
Meters	55,063.72	65,853.96	1,817.34	3,160.30	1,018.34
Street Light Equipment, Regular	13,484.80	15,637.21	507.34	640.66	
Street Light Equip., Ornamental	16,000.00	17,346.71			
Miscellaneous Construction Exp.	4,631.59	7,946.26	948.51	952.26	234.23
Steam or Hydraulic Plant					
Old Plant	2,164.46				
Total Plant	278,033.96	345,364.07	13,248.70	18,434.82	5,991.70
Bank and Cash Balance	1,483.30	2,924.97	903.70	597.06	88.36
Securities and Investments					
Accounts Receivable	17,966.94	15,392.76	2,609.40	2,159.48	
Inventories				17.77	
Sinking Fund on Local Debentures					
Equity in Hydro System		263.23			
Equity in Rural Lines					
Other Assets	1,807.30				
Total Assets	299,291.50	363,945.03	16,761.80	21,209.13	6,080.06
Deficit					
Total	299,291.50	363,945.03	16,761.80	21,209.13	6,080.06
LIABILITIES					
Debenture Balance	126,865.06	116,513.51	9,853.87	8,821.96	5,516.19
Accounts Payable	1,807.30	7,064.72	945.06	836.27	54.06
Bank Overdraft		52,376.85			
Other Liabilities			64.74		
Total Liabilities	128,672.36	175,955.08	10,863.67	9,658.23	5,570.25
RESERVES					
Reserve for Depreciation	38,830.65	41,253.65	420.00	1,128.00	
Reserve for Equity in H.E.P.C. Sys		263.23			
Res. for Equity in H.E.P.C. (Rural)					
Total Reserves	38,830.65	41,516.88	420.00	1,128.00	
SURPLUS					
Debentures Paid	78,377.94	88,729.49	982.78	2,014.69	509.81
Local Sinking Fund					
Additional Operating Surplus	53,410.55	57,743.58	4,495.35	8,408.21	
Total Surplus	131,788.49	146,473.07	5,478.13	10,422.90	509.81
Total Liabilities—Res. and Surplus	299,291.50	363,945.03	16,761.80	21,209.13	6,080.06
Percentage of Net Debt to Total Assets	42.9	48.4	64.8	45.6	91.6

“ A ”—Continued

of Hydro Municipalities as at December 31st, 1921

Norwich ship	South Norwich Township		Norwich 1,237		Oil Springs 443	
1921	1920	1921	1920	1921	1920	1921
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
			910.40	922.30	42.00	42.00
1,111.96	1,989.03	1,989.03	7,616.66	7,643.02	7,388.73	10,464.71
3,627.17	2,411.09	2,411.09	2,799.78	2,811.32	2,636.14	4,727.83
1,018.34	479.00	479.00	3,984.09	4,723.16	1,021.06	2,418.54
			795.97	824.16	276.29	276.29
			1,956.25	1,956.25		
234.23	339.84	339.84	1,117.34	1,599.84	1,469.24	1,783.58
			3,509.82	3,509.82		
5,991.70	5,218.96	5,218.96	22,690.31	23,989.87	12,833.46	19,712.95
88.36			3,671.12	1,233.85		1,476.38
				3,000.00		
			6,883.57	8,669.75	385.01	235.13
			837.45	832.17		2,643.61
			1,656.49	2,286.19		
				54.06		
6,080.06	5,218.96	5,218.96	35,738.94	40,065.89	13,218.47	24,068.07
6,080.06	5,218.96	5,218.96	35,738.94	40,065.89	13,218.47	24,068.07
5,321.66	4,726.91	4,542.85	11,601.00	11,286.20	8,810.74	15,188.85
54.06			1,224.79	960.25	1,476.60	4,199.31
					546.10	
5,375.72	4,726.91	4,542.85	12,825.79	12,246.45	10,833.44	19,388.16
			8,190.56	11,160.56	816.00	1,409.00
			1,656.49	2,286.19		
			9,847.05	13,446.75	816.00	1,409.00
704.34	492.05	676.11	2,155.00	2,469.80	1,189.26	1,532.46
			10,911.10	11,902.89	379.77	1,738.45
704.34	492.05	676.11	13,066.10	14,372.69	1,569.03	3,270.91
6,080.06	5,218.96	5,218.96	35,738.94	40,065.89	13,218.47	24,068.07
88.5	90.5	86.0	35.8	30.5	81.9	80.8

STATEMENT

Comparative Balance Sheets of Electric Departments

NIAGARA SYSTEM—Continued

Municipality	Otterville		Palmerston		Paris
Population	P.V.		1,850		4,346
	1920	1921	1920	1921	1920
	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
ASSETS					
Lands and Buildings.....					7,626.26
Sub-Station Equipment.....			691.88	691.88	10,948.32
Distribution System, Overhead...	3,195.01	3,523.26	12,651.28	13,346.71	34,895.71
Dist. System, Underground.....					
Line Transformers.....	1,588.47	1,659.55	3,000.88	3,514.53	12,260.62
Meters.....	1,006.93	1,121.93	3,550.87	4,191.64	10,802.19
Street Light Equipment, Regular	215.60	244.94	746.32	746.32	2,265.20
Street Light Equip., Ornamental...					
Miscellaneous Construction Exp...	142.00	142.00	1,638.06	1,638.06	211.32
Steam or Hydraulic Plant.....					
Old Plant.....			4,018.71	4,018.71	16,684.76
Total Plant.....	6,148.01	6,691.68	26,298.00	28,147.85	95,694.38
Bank and Cash Balance.....	565.09	421.39	982.86	1,362.12	5,099.86
Securities and Investments.....	1,000.00	2,000.00			6,000.00
Accounts Receivable.....	341.57	177.04	232.69	6,093.29	2,542.11
Inventories.....	14.77	30.75	6,200.08	4,322.09	
Sinking Fund on Local Debentures					18,043.39
Equity in Hydro System.....					424.14
Equity in Rural Lines.....					
Other Assets.....					
Total Assets.....	8,069.44	9,320.86	33,713.63	39,925.35	127,803.88
Deficit.....					
Total.....	8,069.44	9,320.86	33,713.63	39,925.35	127,803.88
LIABILITIES					
Debenture Balance.....	3,810.41	3,646.71	10,496.54	9,302.09	47,305.50
Accounts Payable.....	50.00		4,193.87	3,597.45	
Bank Overdraft.....					
Other Liabilities.....					
Total Liabilities.....	3,860.41	3,646.71	14,690.41	12,899.54	47,305.01
RESERVES					
Reserve for Depreciation.....	854.00	1,140.00	3,811.00	4,826.00	20,802.00
Reserve for Equity in H.E.P.C. Sys					424.14
Res. for Equity in H.E.P.C. (Rural)					
Total Reserves.....	854.00	1,140.00	3,811.00	4,826.00	21,226.14
SURPLUS					
Debentures Paid.....	689.59	853.29	11,503.46	12,697.91	29,694.99
Local Sinking Fund.....					18,043.39
Additional Operating Surplus.....	2,665.44	3,680.86	3,708.76	9,501.90	11,534.35
Total Surplus.....	3,355.03	4,534.15	15,212.22	22,199.81	59,272.73
Total Liabilities—Res. and Surplus	8,069.44	9,320.86	33,713.63	39,925.35	127,803.88
Percentage of Net Debt to Total Assets.....	47.8	39.2	43.5	32.4	37.1

“A ”—Continued

of Hydro Municipalities as at December 31st, 1921

Paris	Parkhill		Petrolia		Plattsville	
	1,194		2,964		P. V.	
1921	1920	1921	1920	1921	1920	1921
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
2,626.26				900.00		
10,959.86			2,361.84	2,403.55		
42,231.09	11,806.90	12,438.35	24,871.82	26,419.82	2,522.10	2,949.66
13,583.15	2,136.65	2,092.56	15,527.35	17,125.22	906.14	906.14
12,541.16	1,894.20	2,467.13	7,760.78	9,420.19	1,086.58	1,252.80
2,400.94	823.68	823.68	818.01	985.28	133.65	133.65
6,647.54			3,864.07	3,864.07		
350.20	255.50	1,251.77	4,485.76	4,885.19	535.92	535.92
16,684.76			3,389.94	3,389.94		
113,033.96	16,916.93	19,073.49	63,079.37	69,363.26	5,184.39	5,778.17
32.35	1,588.13				1,116.78	
3,000.00	119.53	2,663.89	425.83	3,614.24	644.04	271.36
26.57			7,955.75	8,148.61		
21,004.82						
1,037.82					461.85	977.92
138,135.52	18,624.59	21,737.38	71,460.95	81,156.11	7,407.06	7,027.45
					883.72	1,525.75
138,135.52	18,624.59	21,737.38	71,460.95	81,156.11	8,290.78	8,553.20
45,171.54	11,327.88	10,961.27	45,519.39	44,373.07	4,700.85	4,595.22
907.46	5,743.50	3,860.51	1,245.53		1,416.85	873.11
			1,004.57	2,361.25		46.19
		1,850.00				
46,079.00	17,071.38	16,671.78	47,769.49	46,734.32	6,117.70	5,514.42
23,804.00		670.00	8,134.00	10,274.28	1,175.08	1,419.08
1,037.82					461.85	977.92
24,841.82		670.00	8,134.00	10,274.28	1,636.93	2,397.00
31,828.46	345.84	712.45	4,480.61	5,626.93	536.15	641.78
21,004.82						
14,381.42	1,207.37	3,683.15	11,076.85	18,520.58		
67,214.70	1,553.21	4,395.60	15,557.46	24,147.51	536.15	641.78
138,135.52	18,624.59	21,737.38	71,460.95	81,156.11	8,290.78	8,553.20
33.4	91.6	77.0	66.8	57.5	88.1	78.4

STATEMENT

Comparative Balance Sheets of Electric Departments

NIAGARA SYSTEM—Continued

Municipality Population	Point Edward 1,034		Port Colborne 2,956		Port Credit 1,044
	1920	1921	1920	1921	1920
	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
ASSETS					
Lands and Buildings.....					675.00
Sub-Station Equipment.....					
Distribution System, Overhead...	7,470.26	7,856.34	25,401.31	31,856.07	9,538.84
Dist. System, Underground.....					
Line Transformers.....	3,584.50	3,584.50	4,181.67	6,644.54	1,479.17
Meters.....	2,067.94	2,312.59	6,113.22	8,087.18	2,435.72
Street Light Equipment, Regular.	395.80	467.55	211.12	723.92	541.47
Street Light Equip., Ornamental.					
Miscellaneous Construction Exp..	366.39	366.39	4,247.13	4,457.13	626.31
Steam or Hydraulic Plant.....					
Old Plant.....			9,929.60	9,929.60	
Total Plant.....	13,884.89	14,587.37	50,084.05	61,698.44	15,296.51
Bank and Cash Balance.....			235.00	170.00	1,518.80
Securities and Investments.....					1,800.00
Accounts Receivable.....			393.41	745.69	1,819.71
Inventories.....			418.26	3,215.81	
Sinking Fund on Local Debentures					
Equity in Hydro System.....					305.66
Equity in Rural Lines.....					
Other Assets.....					
Total Assets.....	13,884.89	14,587.37	51,130.72	65,829.94	20,740.68
Deficit.....					
Total.....	13,884.89	14,587.37	51,130.72	65,829.94	20,740.68
LIABILITIES					
Debenture Balance.....	5,927.36	5,672.73	38,852.83	49,642.56	6,938.71
Accounts Payable.....	4,038.37	4,201.81	5,723.64		1,486.01
Bank Overdraft.....			4,195.56	7,387.70	
Other Liabilities.....			235.00	155.00	
Total Liabilities.....	9,965.73	9,874.54	49,007.03	57,185.26	8,424.72
RESERVES					
Reserve for Depreciation.....	1,781.00	2,438.00		1,892.00	4,304.00
Reserve for Equity in H.E.P.C. Sys					305.66
Res. for Equity in H.E.P.C. (Rural)					
Total Reserves.....	1,781.00	2,438.00		1,892.00	4,609.66
SURPLUS					
Debentures Paid.....	1,072.64	1,327.27	1,147.17	2,357.44	1,561.29
Local Sinking Fund.....					
Additional Operating Surplus.....	1,065.52	947.56	976.52	4,395.24	6,145.01
Total Surplus.....	2,138.16	2,274.83	2,123.69	6,752.68	7,706.30
Total Liabilities—Res. and Surplus	13,884.89	14,587.37	51,130.72	65,829.94	20,740.68
Percentage of Net Debt to Total Assets.....	71.7	67.7	96.0	87.0	41.2

“A”—Continued

of Hydro Municipalities as at December 31st, 1921

Port Credit	Port Dalhousie 1,565		Queenston P.V.	Port Dover 1,358	Port Stanley 797	
1921	1920	1921	1920	1921	1920	1921
\$ c. 675.00	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
10,203.96	4,156.94	4,501.10	6,006.62	17,685.88	11,509.68	14,532.87
1,787.03	3,757.52	3,957.52	811.89	3,931.05	4,594.69	4,932.28
3,147.35	4,015.93	4,311.43	772.48	955.86	2,430.02	2,889.21
544.72	509.05	509.05	395.59	1,431.76	654.10	766.67
626.31	1,241.16	1,491.16	1,948.71	930.93	5,517.16	5,606.55
	6,018.38	6,018.38			577.51	577.51
16,984.37	19,698.98	20,788.64	9,935.29	24,935.48	26,788.54	30,810.47
1,567.49	457.42	1,422.55	615.51	92.01	118.60	745.95
3,800.00					3,419.25	
	144.36	212.78	50.75	39.93	1,499.80	2,115.47
			12.83		143.50	276.03
455.91					1,962.33	2,718.56
	701.26	834.33				
22,807.77	21,002.02	23,258.30	10,614.38	25,067.42	33,932.02	36,666.48
	981.26	542.20				
22,807.77	21,983.28	23,800.50	10,614.38	25,067.42	33,932.02	36,666.48
6,676.13	10,393.13	14,928.67	8,000.00	21,000.00	15,506.96	15,049.59
405.69	5,253.51	1,497.37	2,039.75	3,485.72	5.00	474.17
				581.70		
7,081.82	15,646.64	16,426.04	10,039.75	25,067.42	15,511.96	15,523.76
5,069.94	3,528.51	3,968.80			6,356.00	7,265.25
455.91					1,962.33	2,718.56
	701.26	834.33				
5,525.85	4,229.77	4,803.13			8,318.33	9,983.81
1,823.87	2,106.87	2,571.33			3,443.04	3,900.41
8,376.23			574.63		6,658.69	7,258.50
10,200.10	2,106.87	2,571.33	574.63		10,101.73	11,158.91
22,807.77	21,983.28	23,800.50	10,614.38	25,067.42	33,932.02	36,666.48
31.1	74.5	70.5	94.5	100.0	48.5	42.3

STATEMENT

Comparative Balance Sheets of Electric Departments

NIAGARA SYSTEM—Continued

Municipality Population	Scarboro Township		Seaforth 1,981		Simcoe 3,946
	1920	1921	1920	1921	1920
	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
ASSETS					
Lands and Buildings.....			1,251.57	1,251.57	1,496.75
Sub-Station Equipment.....			5,995.27	5,995.27	5,611.99
Distribution System, Overhead....	17,825.97	24,468.50	18,625.65	22,561.59	18,513.46
Dist. System, Underground.....					
Line Transformers.....	6,200.57	7,975.82	6,474.14	6,474.14	5,512.15
Meters.....	8,631.14	12,751.93	5,823.74	6,519.82	4,650.35
Street Light Equipment, Regular..	2,638.91	4,448.02	939.84	1,055.71	1,506.26
Street Light Equip., Ornamental..					2,527.16
Miscellaneous Construction Exp..	862.05	862.05	355.98	355.98	3,788.62
Steam or Hydraulic Plant.....					
Old Plant.....					927.92
Total Plant.....	36,158.64	50,506.32	39,466.19	44,214.08	44,534.66
Bank and Cash Balance.....		4,650.82	682.42	665.39	531.94
Securities and Investments.....			5,000.00	11,000.00	8,000.00
Accounts Receivable.....	2,186.36	2,770.40	8,710.24	3,591.12	5,889.86
Inventories.....			4,717.23	3,091.75	15.49
Sinking Fund on Local Debentures			6,438.95	5,351.67	
Equity in Hydro System.....				7,971.16	
Equity in Rural Lines.....	1,508.41	2,046.48			
Other Assets.....					
Total Assets.....	39,853.41	59,974.02	70,642.17	75,885.17	58,971.95
Deficit.....	1,635.77	72.78			
Total.....	41,489.18	60,046.80	70,642.17	75,885.17	58,971.95
LIABILITIES					
Debenture Balance.....	16,975.58	39,781.85	25,000.00	25,000.00	35,434.90
Accounts Payable.....	4,688.35	7,796.49			486.03
Bank Overdraft.....	13,709.42				
Other Liabilities.....		1,625.83			3,500.00
Total Liabilities.....	35,373.35	49,204.17	25,000.00	25,000.00	39,420.93
RESERVES					
Reserve for Depreciation.....	3,083.00	6,078.00	13,188.00	14,746.25	6,204.50
Reserve for Equity in H.E.P.C. Sys			6,438.95	7,971.16	
Res. for Equity in H.E.P.C. (Rural)	1,508.41	2,046.48			
Total Reserves.....	4,591.41	8,124.48	19,626.95	22,717.41	6,204.50
SURPLUS					
Debentures Paid.....	1,524.42	2,718.15			
Local Sinking Fund.....			4,717.23	5,351.67	
Additional Operating Surplus.....			21,297.99	22,816.09	13,346.52
Total Surplus.....	1,524.42	2,718.15	26,015.22	28,167.76	13,346.52
Total Liabilities—Res. and Surplus	41,489.18	60,046.80	70,642.17	75,885.17	58,971.95
Percentage of Net Debt to Total Assets.....	88.8	82.0	35.4	32.9	67.1

“ A ”—Continued

of Hydro Municipalities as at December 31st, 1921

Simcoe	Springfield 470		St. Catharines 19,862		St. George P.V.	
1921	1920	1921	1920	1921	1920	1921
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
1,496.75			39,247.02	38,247.02		
5,611.99			58,760.22	69,419.56		
20,141.33	4,195.51	4,158.22	136,484.31	143,546.52	3,114.31	3,195.53
8,569.68	671.74	671.74	45,443.52	49,386.41	851.31	1,175.69
6,201.31	734.07	863.76	42,737.69	46,545.48	1,157.31	1,345.34
1,673.24	199.52	269.42	10,259.06	10,724.25	218.11	218.11
2,527.16			10,407.20	11,227.12		
3,836.57	675.08	675.08	37,253.90	36,516.91	374.18	374.18
927.92						
50,985.95	6,474.92	6,638.22	380,592.92	405,613.27	5,715.22	6,308.85
	312.31	224.78		1,910.13	2,146.42	70.73
11,000.00					3,000.00	5,000.00
1,489.97	463.79		11,204.71	13,684.84	690.26	256.47
	196.52		2,413.09	1,546.09	42.04	405.20
			18,622.31	21,785.16		
284.71						215.34
	211.73		995.09	1,329.92		
63,760.63	7,659.07	6,863.00	413,828.12	445,869.41	11,593.94	12,256.59
63,760.63	7,659.07	6,863.00	413,828.12	445,869.41	11,593.94	12,256.59
35,434.90	3,286.53	2,803.35	218,802.15	214,872.39	5,429.41	5,315.19
1,361.14	1,028.06	381.92	9,737.91	20,793.27	51.94	71.71
1,899.54			118.64			
3,500.00			13,407.20	10,407.20		
42,195.58	4,314.59	3,185.27	242,065.90	246,072.86	5,481.35	5,386.90
7,727.57			49,246.44	59,488.44	1,091.00	1,372.00
284.71	211.73		995.09	1,329.92		215.34
8,012.28	211.73		50,241.53	60,818.36	1,091.00	1,587.34
	1,713.47	2,196.65	13,220.76	17,150.52	570.59	684.81
			18,622.31	21,785.16		
13,552.77	1,419.28	1,481.08	89,677.62	100,042.51	4,451.00	4,597.54
13,552.77	3,132.75	3,677.73	121,520.69	138,978.19	5,021.59	5,282.35
63,760.63	7,659.07	6,863.00	413,828.12	445,869.41	11,593.94	12,256.59
66.2	65.9	46.4	58.5	55.3	47.2	43.9

STATEMENT

Comparative Balance Sheets of Electric Departments

**NIAGARA
SYSTEM—Continued**

Municipality	Scarboro Township		Seaforth		Simcoe
Population			1,981		3,946
	1920	1921	1920	1921	1920
	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
ASSETS					
Lands and Buildings.....			1,251.57	1,251.57	1,496.75
Sub-Station Equipment.....			5,995.27	5,995.27	5,611.99
Distribution System, Overhead....	17,825.97	24,468.50	18,625.65	22,561.59	18,513.46
Dist. System, Underground.....					
Line Transformers.....	6,200.57	7,975.82	6,474.14	6,474.14	5,512.15
Meters.....	8,631.14	12,751.93	5,823.74	6,519.82	4,650.35
Street Light Equipment, Regular....	2,638.91	4,448.02	939.84	1,055.71	1,506.26
Street Light Equip., Ornamental....					2,527.16
Miscellaneous Construction Exp....	862.05	862.05	355.98	355.98	3,788.62
Steam or Hydraulic Plant.....					
Old Plant.....					927.92
Total Plant.....	36,158.64	50,506.32	39,466.19	44,214.08	44,534.66
Bank and Cash Balance.....		4,650.82	682.42	665.39	531.94
Securities and Investments.....			5,000.00	11,000.00	8,000.00
Accounts Receivable.....	2,186.36	2,770.40	8,710.24	3,591.12	5,889.86
Inventories.....			4,717.23	3,091.75	15.49
Sinking Fund on Local Debentures....			6,438.95	5,351.67	
Equity in Hydro System.....				7,971.16	
Equity in Rural Lines.....	1,508.41	2,046.48			
Other Assets.....					
Total Assets.....	39,853.41	59,974.02	70,642.17	75,885.17	58,971.95
Deficit.....	1,635.77	72.78			
Total.....	41,489.18	60,046.80	70,642.17	75,885.17	58,971.95
LIABILITIES					
Debenture Balance.....	16,975.58	39,781.85	25,000.00	25,000.00	35,434.90
Accounts Payable.....	4,688.35	7,796.49			486.03
Bank Overdraft.....	13,709.42				
Other Liabilities.....		1,625.83			3,500.00
Total Liabilities.....	35,373.35	49,204.17	25,000.00	25,000.00	39,420.93
RESERVES					
Reserve for Depreciation.....	3,083.00	6,078.00	13,188.00	14,746.25	6,204.50
Reserve for Equity in H.E.P.C. Sys....			6,438.95	7,971.16	
Res. for Equity in H.E.P.C. (Rural)....	1,508.41	2,046.48			
Total Reserves.....	4,591.41	8,124.48	19,626.95	22,717.41	6,204.50
SURPLUS					
Debentures Paid.....	1,524.42	2,718.15			
Local Sinking Fund.....			4,717.23	5,351.67	
Additional Operating Surplus.....			21,297.99	22,816.09	13,346.52
Total Surplus.....	1,524.42	2,718.15	26,015.22	28,167.76	13,346.52
Total Liabilities—Res. and Surplus....	41,489.18	60,046.80	70,642.17	75,885.17	58,971.95
Percentage of Net Debt to Total Assets.....	88.8	82.0	35.4	32.9	67.1

“ A ”—Continued
of Hydro Municipalities as at December 31st, 1921

Simcoe	Springfield		St. Catharines		St. George	
	470		19,862		P.V.	
1921	1920	1921	1920	1921	1920	1921
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
1,496.75			39,247.02	38,247.02		
5,611.99			58,760.22	69,419.56		
20,141.33	4,195.51	4,158.22	136,484.31	143,546.52	3,114.31	3,195.53
8,569.68	671.74	671.74	45,443.52	49,386.41	851.31	1,175.69
6,201.31	734.07	863.76	42,737.69	46,545.48	1,157.31	1,345.34
1,673.24	199.52	269.42	10,259.06	10,724.25	218.11	218.11
2,527.16			10,407.20	11,227.12		
3,836.57	675.08	675.08	37,253.90	36,516.91	374.18	374.18
927.92						
50,985.95	6,474.92	6,638.22	380,592.92	405,613.27	5,715.22	6,308.85
11,000.00	312.31	224.78		1,910.13	2,146.42	70.73
1,489.97	463.79		11,204.71	13,684.84	3,000.00	5,000.00
	196.52		2,413.09	1,546.09	690.26	256.47
284.71			18,622.31	21,785.16	42.04	405.20
	211.73		995.09	1,329.92		215.34
63,760.63	7,659.07	6,863.00	413,828.12	445,869.41	11,593.94	12,256.59
63,760.63	7,659.07	6,863.00	413,828.12	445,869.41	11,593.94	12,256.59
35,434.90	3,286.53	2,803.35	218,802.15	214,872.39	5,429.41	5,315.19
1,361.14	1,028.06	381.92	9,737.91	20,793.27	51.94	71.71
1,899.54			118.64			
3,500.00			13,407.20	10,407.20		
42,195.58	4,314.59	3,185.27	242,065.90	246,072.86	5,481.35	5,386.90
7,727.57			49,246.44	59,488.44	1,091.00	1,372.00
284.71	211.73		995.09	1,329.92		215.34
8,012.28	211.73		50,241.53	60,818.36	1,091.00	1,587.34
	1,713.47	2,196.65	13,220.76	17,150.52	570.59	684.81
13,552.77	1,419.28	1,481.08	18,622.31	21,785.16	4,451.00	4,597.54
13,552.77	3,132.75	3,677.73	121,520.69	138,978.19	5,021.59	5,282.35
63,760.63	7,659.07	6,863.00	413,828.12	445,869.41	11,593.94	12,256.59
66.2	65.9	46.4	58.5	55.3	47.2	43.9

STATEMENT

Comparative Balance Sheets of Electric Departments

NIAGARA SYSTEM—Continued

Municipality	St. Jacobs		St. Marys		St. Thomas
Population	P.V.		4,004		17,850
	1920	1921	1920	1921	1920
	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
ASSETS					
Lands and Buildings.....			3,000.00	3,000.00	35,372.95
Sub-Station Equipment.....			15,832.26	23,305.78	65,779.03
Distribution System, Overhead...	3,482.98	3,524.40	30,609.52	32,466.25	83,025.92
Dist. System, Underground.....					9,925.36
Line Transformers.....	877.50	904.72	11,375.67	11,855.98	23,834.08
Meters.....	1,021.20	1,132.00	13,441.83	14,932.57	40,407.26
Street Light Equipment, Regular.	263.53	263.53	2,196.84	2,217.66	13,121.74
Street Light Equip., Ornamental.					7,525.69
Miscellaneous Construction Exp..	452.22	452.22	3,028.36	3,432.60	7,908.39
Steam or Hydraulic Plant.....					
Old Plant.....			20,696.85	20,696.85	791.95
Total Plant.....	6,097.43	6,276.87	100,181.33	111,907.69	287,692.37
Bank and Cash Balance.....	3,036.54	1,055.89			
Securities and Investments.....		3,000.00			33,306.81
Accounts Receivable.....	508.14	298.73	323.53	2,376.93	34,337.45
Inventories.....			1,668.26	2,568.37	16,523.51
Sinking Fund on Local Debentures			4,222.91	4,868.51	
Equity in Hydro System.....			5,324.51	7,458.60	15,920.00
Equity in Rural Lines.....					229.67
Other Assets.....					
Total Assets.....	9,642.09	10,631.49	111,720.54	129,180.10	388,009.51
Deficit.....					
Total.....	9,642.09	10,631.49	111,720.54	129,180.10	388,009.51
LIABILITIES					
Debenture Balance.....	5,454.79	5,252.70	37,823.81	44,037.20	96,624.21
Accounts Payable.....		105.45	753.09	326.42	10,757.20
Bank Overdraft.....			1,860.36	1,957.90	3,265.66
Other Liabilities.....					
Total Liabilities.....	5,454.79	5,358.15	40,437.26	46,321.52	110,647.07
RESERVES					
Reserve for Depreciation.....	737.00	944.00	24,725.99	28,293.72	61,800.00
Reserve for Equity in H.E.P.C. Sys			5,324.51	7,458.60	15,920.00
Res. for Equity in H.E.P.C. (Rural)					229.67
Total Reserves.....	737.00	944.00	30,050.50	35,752.32	77,949.67
SURPLUS					
Debentures Paid.....	545.21	747.30	33,423.21	35,209.82	46,460.22
Local Sinking Fund.....			4,222.91	4,868.51	
Additional Operating Surplus.....	2,905.09	3,582.04	3,586.66	7,027.93	152,952.55
Total Surplus.....	3,450.30	4,329.34	41,232.78	47,106.26	199,412.77
Total Liabilities—Res. and Surplus	9,642.09	10,631.49	111,720.54	129,180.10	388,009.51
Percentage of Net Debt to Total Assets.....	56.6	50.4	36.2	35.8	30.7

“ A ”—Continued.

of Hydro Municipalities as at December 31st, 1921

St. Thomas	Stamford Township		Stratford		Strathroy	
			18,871		2,654	
1921	1920	1921	1920	1921	1920	1921
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
39,537.40	388.80	3,040.54	44,448.44	82,729.04	1,070.00	1,070.00
69,697.91	4,671.39	5,632.21	53,114.64	60,565.85	7,842.31	8,061.36
86,473.97	25,193.96	32,819.69	110,527.44	118,078.44	23,711.60	23,711.60
9,974.22					21,237.04	
27,840.96	8,287.54	10,855.36	31,060.09	36,633.32	9,440.83	11,989.18
45,906.72	6,489.74	8,377.59	48,104.18	54,682.90	7,718.71	9,379.04
13,122.03	1,543.06	1,624.87	6,089.46	6,114.96	1,566.10	1,566.10
7,538.63			11,075.05	11,075.05		
5,905.10	4,510.02	6,166.13	13,736.03	13,466.05	694.30	694.30
	9,497.66	15,127.16	16,260.00	16,260.00	12,343.15	12,343.15
305,996.94	60,582.17	83,643.55	334,415.01	399,605.61	61,912.44	68,814.73
2,697.77			30,284.61	630.51		137.79
33,306.81				23,000.00		3,000.00
23,240.53	4,970.58	4,867.31	31,144.71	14,557.56	10,110.18	368.74
26,331.80	24.11		2,530.39	6,093.55	11,075.54	11,342.02
			38,827.83	44,661.46		
20,231.24			13,503.54	17,923.12	1,189.60	1,304.68
			568.61	664.39		
411,805.09	65,576.86	88,510.86	451,274.70	507,136.20	84,287.76	84,967.96
411,805.09	65,576.86	88,510.86	451,274.70	507,136.20	84,287.76	84,967.96
91,426.76	46,431.99	45,033.04	222,000.00	222,000.00	38,489.67	36,641.66
22,026.64	482.50	22,198.73	16,587.36	21,587.36	3,799.07	
	2,883.98	2,111.05		24,000.00	2,012.17	
		9.00				
111,453.40	49,798.47	69,351.82	238,587.36	267,587.36	44,300.91	36,641.66
66,955.36	4,847.24	7,003.48	70,797.04	81,804.92	9,455.00	11,955.00
20,231.24			13,503.54	17,923.12	1,189.60	1,304.68
			568.61	664.39		
87,186.60	4,847.24	7,003.48	84,869.19	100,392.43	10,644.60	13,259.68
51,657.67	1,568.01	2,966.96	43,800.00	43,800.00	7,742.33	9,590.34
			38,827.83	44,661.46		
161,507.42	9,363.14	9,188.60	45,190.32	50,694.95	21,599.92	25,476.28
213,165.09	10,931.15	12,155.56	127,818.15	139,156.41	29,342.25	35,066.62
411,805.09	65,576.86	88,510.86	451,274.70	507,136.20	84,287.76	84,967.96
27.1	75.9	78.4	54.4	52.7	53.3	43.2

STATEMENT

Comparative Balance Sheets of Electric Departments

NIAGARA SYSTEM—Continued

Municipality Population	Tavistock 1,003		Thamesford P.V.		Thames- ville 807
	1920	1921	1920	1921	1920
ASSETS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Lands and Buildings.....	234.02	234.02			
Sub-Station Equipment.....					
Distribution System, Overhead...	6,096.09	6,406.49	4,229.49	4,546.87	4,545.12
Dist. System, Underground.....					
Line Transformers.....	1,365.82	1,680.01	1,741.01	2,061.98	2,448.34
Meters.....	368.74	2,737.64	1,146.12	1,221.19	1,754.51
Street Light Equipment, Regular.	666.39	711.93	176.85	176.85	325.94
Street Light Equip., Ornamental.					
Miscellaneous Construction Exp..	570.89	570.89	214.02	214.02	561.75
Steam or Hydraulic Plant.....					
Old Plant.....					4,258.80
Total Plant.....	11,301.95	12,340.98	7,507.49	8,220.91	13,894.46
Bank and Cash Balance.....	3,858.90	3,387.76	1,218.07	1,476.61	
Securities and Investments.....		7,050.00			
Accounts Receivable.....	6,156.59	1,118.77	191.49	218.21	830.30
Inventories.....	276.80	286.13	24.71	26.30	432.50
Sinking Fund on Local Debentures					
Equity in Hydro System.....			266.34	614.55	
Equity in Rural Lines.....					
Other Assets.....					7.77
Total Assets.....	21,594.24	24,183.64	9,208.10	10,556.58	15,165.03
Deficit.....					
Total.....	21,594.24	24,183.64	9,208.10	10,556.58	15,165.03
LIABILITIES					
Debenture Balance.....	5,610.74	5,500.97	4,641.81	4,414.80	9,775.78
Accounts Payable.....	25.00				1,665.27
Bank Overdraft.....					186.11
Other Liabilities.....					
Total Liabilities.....	5,635.74	5,500.97	4,641.81	4,414.80	11,627.16
RESERVES					
Reserve for Depreciation.....	1,620.00	2,135.00	1,945.08	2,173.69	2,097.00
Reserve for Equity in H.E.P.C. Sys			266.34	614.55	
Res. for Equity in H.E.P.C. (Rural)					
Total Reserves.....	1,620.00	2,135.00	2,211.42	2,788.24	2,097.00
SURPLUS					
Debentures Paid.....	389.26	499.03	716.22	943.23	1,412.02
Local Sinking Fund.....					
Additional Operating Surplus....	13,949.24	16,048.64	1,638.65	2,410.31	28.85
Total Surplus.....	14,338.50	16,547.67	2,354.87	3,353.54	1,440.87
Total Liabilities—Res. and Surplus	21,594.24	24,183.64	9,208.10	10,556.58	15,165.03
Percentage of Net Debt to Total Assets.....	26.1	22.7	51.9	41.7	76.6

“ A ”—Continued

of Hydro Municipalities as at December 31st, 1921

Thames- ville	Thorndale P.V.		Thorold 5,514	Tilbury 1,749		Townsend Township	
1921	1920	1921	1921	1920	1921	1920	1921
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
5,003.58	2,055.26	2,171.10	18,506.43	957.46	957.46	853.71	853.71
2,448.34	939.20	939.20	5,594.34	5,637.89	6,607.56	1,154.45	1,154.45
2,143.88	1,005.12	1,029.02	11,970.39	2,324.62	3,966.51	269.74	269.74
325.94	80.36	80.36	1,530.68	2,364.78	3,265.80		
561.75	305.63	305.63	3,800.00	194.49	237.09	85.55	85.55
4,232.38			13,075.00	1,159.48	1,159.48		
				3,553.47	3,053.47		
14,715.87	4,385.57	4,525.31	54,476.84	16,192.19	19,247.37	2,363.45	2,363.45
1,317.25	643.50	472.74	384.25	570.44			
984.48	263.78		862.39	500.00		236.55	1,242.55
425.28	40.80	39.97	281.10				
369.27	524.31	1,050.81			513.89		
7.77						230.60	301.02
17,819.92	5,857.96	6,088.83	56,004.58	17,262.63	19,761.26	2,830.60	3,907.02
		338.62		2,862.60	267.79		
17,819.92	5,857.96	6,427.45	56,004.58	20,125.23	20,029.05	2,830.60	3,907.02
9,452.92	2,728.75	2,602.22	2,103.54	12,622.27	12,286.55	2,454.40	2,374.98
	1,413.35	1,356.50		3,888.23	2,638.05		
					31.11		
9,452.92	4,142.10	3,958.72	2,103.54	16,510.50	14,955.71	2,454.40	2,374.98
2,414.86	736.66	933.66	16,579.00	2,237.00	2,846.00		1,006.00
369.27	524.31	1,050.81			513.89		
						230.60	301.02
2,784.13	1,260.97	1,984.47	16,579.00	2,237.00	3,359.89	230.60	1,307.02
1,734.88	357.73	484.26		1,377.73	1,713.45	145.60	225.02
3,847.99	97.16		37,322.04				
5,582.87	454.89	484.26	37,322.04	1,377.73	1,713.45	145.60	225.02
17,819.92	5,857.96	6,427.45	56,004.58	20,125.23	20,029.05	2,830.60	3,907.02
53.0	77.6	65.0	3.7	95.6	76.0	89.5	60.8

STATEMENT

Comparative Balance Sheets of Electric Departments

NIAGARA SYSTEM—Continued

Municipality	Tillsonburg		Toronto		Toronto Twp.
Population	3,021		512,812		
	1920	1921	1920	1921	1920
	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
ASSETS					
Lands and Buildings	2,224.27	2,224.27	1,040,628.53	1,701,146.65	
Sub-Station Equipment	12,195.44	14,095.77	1,651,677.02	2,022,680.78	
Distribution System, Overhead	25,010.07	27,953.99	3,059,036.74	3,407,521.69	16,950.12
Dist. System, Underground			989,357.85	1,051,715.82	
Line Transformers	9,036.73	7,723.49	764,060.37	937,604.29	10,352.37
Meters	7,131.51	7,895.51	1,005,350.80	1,164,537.00	5,871.24
Street Light Equipment, Regular	1,961.25	2,261.84	716,119.60	727,541.22	
Street Light Equip., Ornamental					
Miscellaneous Construction Exp.	718.50	718.50	1,853,173.38	2,043,767.01	1,021.47
Steam or Hydraulic Plant			38,517.07	38,517.07	
Old Plant			19,797.66	17,810.86	619.65
Total Plant	58,277.77	62,873.37	11,137,720.02	13,112,842.39	34,814.85
Bank and Cash Balance	681.23	3,365.36	639,014.52	562,225.87	
Securities and Investments	6,000.00	9,000.00			
Accounts Receivable	6,011.22	2,906.19	471,493.88	612,946.27	2,772.44
Inventories	2,362.82	1,828.52	699,336.22	786,212.80	
Sinking Fund on Local Debentures	3,294.56	3,950.33	1,093,334.77	1,239,614.21	
Equity in Hydro System	5,877.20	7,193.69	188,243.53	243,279.95	388.29
Equity in Rural Lines					5,012.83
Other Assets					
Total Assets	82,504.80	91,117.46	14,229,142.94	16,557,121.49	42,988.41
Deficit					
Total	82,504.80	91,117.46	14,229,142.94	16,557,121.49	42,988.41
LIABILITIES					
Debenture Balance	29,572.29	28,681.79	9,563,897.31	10,737,923.27	10,161.08
Accounts Payable	1,775.17	3,403.58	578,542.54	600,863.78	1,500.00
Bank Overdraft					2,090.93
Other Liabilities			210,744.65	505,608.73	
Total Liabilities	31,347.46	32,085.37	10,353,184.50	11,844,395.78	13,752.01
RESERVES					
Reserve for Depreciation	15,451.32	18,459.32	2,153,921.85	2,372,302.10	17,433.93
Reserve for Equity in H.E.P.C. Sys	5,877.20	7,193.69	188,243.53	243,279.95	388.29
Res. for Equity in H.E.P.C. (Rural)					5,012.83
Total Reserves	21,328.52	25,653.01	2,342,165.38	2,615,582.05	22,835.05
SURPLUS					
Debentures Paid	6,427.71	7,318.21	211,102.69	312,076.73	1,838.92
Local Sinking Fund	3,294.56	3,950.33	1,093,334.77	1,239,614.21	
Additional Operating Surplus	20,106.55	22,110.54	229,355.60	545,452.72	4,562.43
Total Surplus	29,828.82	33,379.08	1,533,793.06	2,097,143.66	6,401.35
Total Liabilities—Res. and Surplus	82,504.80	91,117.46	14,229,142.94	16,557,121.49	42,988.41
Percentage of Net Debt to Total Assets	40.9	35.1	73.7	71.5	32.2

“A”—Continued

of Hydro Municipalities as at December 31st, 1921

Toronto	Vaughan Township		Walkerville 7,469		Wallaceburg 4,119	
1921	1920	1921	1920	1921	1920	1921
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
.....	.....	.....	20,150.73	25,104.11	1,735.58	1,735.58
.....	.....	.....	36,791.38	57,391.73	2,234.15	2,234.15
29,564.37	4,160.16	3,727.12	41,834.59	47,296.93	27,459.76	28,996.55
.....
11,976.79	3,075.67	3,170.69	24,602.89	34,333.12	15,231.70	15,868.00
8,226.50	1,285.59	1,481.10	28,908.34	36,261.45	11,136.05	12,449.19
.....	122.54	122.54	.....	.....	1,665.13	1,723.26
.....	.....	.....	51,000.00	51,000.00	.....	.....
1,177.17	499.90	499.90	29,152.88	33,982.18	4,931.79	5,965.94
.....	.....	.....	*50,553.46	*61,050.79	.....	.....
619.65	.....	.....	18,335.05	18,335.05	19,510.49	19,485.49
.....
51,564.48	9,143.86	9,001.35	301,329.32	364,755.36	83,904.65	88,458.16
.....	555.09	1,360.53	50.00	50.00	4,364.44	1,003.63
.....
3,572.55	978.21	1,046.29	43,641.26	65,650.91	16,379.78	24,301.87
.....	.....	.....	14,211.54	18,003.48	11,163.20	6,811.06
.....
696.69	.....	.....	13,787.19	25,003.75	.....	1,727.78
5,947.02	1,102.17	1,526.82	3,645.56	4,412.78	.....	.....
.....	.....	.....	.....	1,553.82	.....	178.96
.....
61,780.74	11,779.33	12,934.99	376,664.87	479,430.10	115,812.07	122,481.46
.....	2,724.25	3,492.98	.....	.....	.....	.....
.....
61,780.74	14,503.58	16,427.97	376,664.87	479,430.10	115,812.07	122,481.46
.....
.....
9,724.53	7,574.51	7,340.80	140,862.17	170,489.74	67,171.08	65,767.82
9,922.11	4,702.79	4,968.53	12,725.22	15,913.52	8,366.63	2,646.25
254.46	.....	.....	2,927.48	28,293.77	.....	.....
.....	.....	.....	52,417.73	51,000.00	.....	.....
.....
19,901.10	12,277.30	12,309.33	208,932.60	265,697.03	75,537.71	68,414.07
.....
21,852.93	698.62	1,932.62	37,561.00	48,466.00	10,470.00	12,343.15
696.69	.....	.....	13,787.19	25,003.75	.....	1,727.78
5,947.02	1,102.17	1,526.82	3,645.56	4,412.78	.....	.....
.....
28,496.64	1,800.79	3,459.44	54,993.75	77,882.53	10,470.00	14,070.93
.....
.....
2,275.47	425.49	659.20	18,396.83	23,769.26	4,365.50	5,768.76
.....	.....	.....	.....	1,437.54	.....	.....
11,107.53	.....	.....	94,341.69	110,643.74	25,438.86	34,227.70
.....
13,383.00	425.49	659.20	112,738.52	135,850.54	29,804.36	39,996.46
.....
61,780.74	14,503.58	16,427.97	376,664.87	479,430.10	115,812.07	122,481.46
.....
.....
32.2	104.2	85.4	57.5	55.5	65.2	56.0

* Ford City and Sandwich East.

STATEMENT

Comparative Balance Sheets of Electric Departments

NIAGARA SYSTEM—Continued

Municipality	West Lorne		Wellesley		Weston
Population	770		P.V.		3,104
	1920	1921	1920	1921	1920
	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
ASSETS					
Lands and Buildings					3,230.94
Sub-Station Equipment					11,889.20
Distribution System, Overhead	6,095.41	6,195.23	4,311.51	4,363.44	19,002.76
Dist. System, Underground					
Line Transformers	2,531.61	2,641.15	1,311.47	1,311.47	14,523.78
Meters	1,610.83	1,804.12	1,190.29	1,266.99	8,332.60
Street Light Equipment, Regular	566.10	566.10	386.55	386.55	2,189.53
Street Light Equip., Ornamental					
Miscellaneous Construction Exp.	199.49	199.49	128.57	128.57	3,642.09
Steam or Hydraulic Plant					
Old Plant	1,250.00	1,250.00			
Total Plant	12,253.44	12,656.09	7,238.39	7,457.02	62,810.90
Bank and Cash Balance	925.48	1,507.51	2,579.48	4,110.59	
Securities and Investments		2,000.00			
Accounts Receivable	1,556.57	2,184.30	1,360.84	38.66	10,904.79
Inventories	48.24	114.89			92.07
Sinking Fund on Local Debentures					
Equity in Hydro System					5,205.09
Equity in Rural Lines					707.87
Other Assets	160.00	160.00			
Total Assets	14,943.73	18,622.79	11,268.71	11,606.27	79,720.72
Deficit					
Total	14,943.73	18,622.79	11,268.71	11,606.27	79,720.72
LIABILITIES					
Debenture Balance	7,557.32	7,429.56	6,608.11	6,365.29	13,697.02
Accounts Payable	713.53	979.99			
Bank Overdraft					1,237.77
Other Liabilities					
Total Liabilities	8,270.85	8,409.55	6,608.11	6,365.29	14,934.79
RESERVES					
Reserve for Depreciation	988.00	1,462.00	1,187.00	1,517.00	17,062.00
Reserve for Equity in H.E.P.C. Sys					5,205.09
Res. for Equity in H.E.P.C. (Rural)					707.87
Total Reserves	988.00	1,462.00	1,187.00	1,517.00	22,974.96
SURPLUS					
Debentures Paid	442.68	570.44	891.89	1,134.71	6,270.86
Local Sinking Fund					
Additional Operating Surplus	5,242.20	8,180.80	2,581.71	2,589.27	35,540.11
Total Surplus	5,684.88	8,751.24	3,473.60	3,723.98	41,810.97
Total Liabilities—Res. and Surplus	14,943.73	18,622.79	11,268.71	11,606.27	79,720.72
Percentage of Net Debt to Total Assets	55.3	45.2	58.6	54.8	20.0

“ A ”—Continued

of Hydro Municipalities as at December 31st, 1921

Weston	Windsor 37,170		Woodbridge 661		Woodstock 10,333	
1921	1920	1921	1920	1921	1920	1921
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
3,230.94	13,456.88	14,167.01			27,391.70	28,776.51
13,220.54	57,095.41	95,599.89			36,909.11	49,205.24
22,222.34	249,770.20	286,227.53	7,284.91	7,578.75	57,046.70	65,178.43
16,101.80	99,858.47	134,000.19	2,633.68	2,633.68	28,027.29	31,604.64
9,952.70	105,864.63	129,726.85	1,811.44	2,041.30	27,796.98	31,441.11
2,833.16	12,404.28	12,404.28	343.56	355.58	10,512.42	10,699.09
6,481.83	219,399.18	245,094.02				
3,966.54	17,369.14	75,055.07	642.82	642.82	16,268.60	17,832.81
	122,341.54				14,908.62	14,908.62
	48,048.77	120,301.54				
78,009.85	945,608.50	1,112,576.38	12,716.41	13,252.13	218,861.42	249,646.45
1,689.02	75.00	75.00	4,256.14	6,054.23	1,424.10	1,050.74
		* 7,271.12	500.00	500.00	35,000.00	15,000.00
1,663.63	118,255.51	137,632.82	930.33	229.68	18,393.61	161.37
315.73	88,163.91	101,596.70	4.60		3,734.39	4,193.77
	21,149.16	21,387.32			27,579.00	30,187.49
6,858.33	10,485.14	19,230.23	302.32	657.90	6,597.70	8,796.48
830.41	688.77	830.41			139.02	
	1,600.00					
89,366.97	1,186,025.99	1,400,599.98	18,709.80	20,693.94	311,729.24	309,036.30
89,366.97	1,186,025.99	1,400,599.98	18,709.80	20,693.94	311,729.24	309,036.30
13,311.75	661,427.40	799,122.27	7,845.08	7,691.71	77,385.63	77,385.63
3,636.46	69,054.35	36,246.62		103.15		12,188.07
	30,499.79	16,295.99			30,500.00	
	216,879.92	232,325.82				
16,948.21	977,861.46	1,083,990.70	7,845.08	7,794.86	107,885.63	89,573.70
20,735.81	54,611.74	78,051.74	2,589.01	3,147.01	47,675.25	51,961.40
6,858.33	10,485.14	19,230.23	302.32	657.90	6,597.70	8,796.48
830.41	688.77	830.41			139.02	
28,424.55	65,785.65	98,112.38	2,891.33	3,804.91	54,411.97	60,757.88
6,656.13	28,572.63	40,877.76	654.89	808.26	30,000.00	30,000.00
	21,149.16	28,658.44			27,579.00	30,187.49
37,338.08	92,657.09	148,960.70	7,318.50	8,285.91	91,852.64	98,517.23
43,994.21	142,378.88	218,496.90	7,973.39	9,094.17	149,431.64	158,704.72
89,366.97	1,186,025.99	1,400,599.98	18,709.80	20,693.94	311,729.24	309,036.30
19.0	83.1	77.5	42.6	37.6	35.3	29.8

* Special Sinking Fund

STATEMENT

Comparative Balance Sheets of Electric Departments

**NIAGARA
SYSTEM—Continued**

Municipality Population	Waterloo Township		Wardsville 215	Waterdown 816	
	1920	1921	1921	1920	1921
	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
ASSETS					
Lands and Buildings					
Sub-Station Equipment					
Distribution System, Overhead	334.38	334.38	4,487.90	8,328.63	9,037.72
Dist. System, Underground					
Line Transformers	1,015.13	1,015.13	601.14	1,751.00	1,751.00
Meters	35.49	35.49	568.50	2,467.48	2,908.86
Street Light Equipment, Regular			489.73	161.67	199.07
Street Light Equip., Ornamental					
Miscellaneous Construction Exp.	33.88	33.88	488.73	100.34	100.34
Steam or Hydraulic Plant					
Old Plant			193.94		
Total Plant	1,738.88	1,738.88	6,829.94	12,809.12	13,996.99
Bank and Cash Balance			1,227.24	2,972.89	3,466.95
Securities and Investments				3,500.00	3,500.00
Accounts Receivable					
Inventories				35.00	35.00
Sinking Fund on Local Debentures					
Equity in Hydro System				1,063.75	1,406.13
Equity in Rural Lines				1,441.77	
Other Assets					
Total Assets	1,738.88	1,738.88	8,057.18	21,822.53	22,405.07
Deficit					
Total	1,738.88	1,738.88	8,057.18	21,822.53	22,405.07
LIABILITIES					
Debenture Balance			7,562.40	5,479.96	5,037.15
Accounts Payable	1,738.88	1,738.88	72.33	549.62	155.77
Bank Overdraft					
Other Liabilities					
Total Liabilities	1,738.88	1,738.88	7,634.73	6,029.58	5,192.92
RESERVES					
Reserve for Depreciation				6,852.30	8,113.48
Reserve for Equity in H.E.P.C. Sys				1,063.75	1,406.13
Res. for Equity in H.E.P.C. (Rural)				1,441.77	
Total Reserves				9,357.82	9,519.61
SURPLUS					
Debentures Paid				2,520.04	2,962.85
Local Sinking Fund					
Additional Operating Surplus			422.45	3,915.09	4,729.69
Total Surplus			422.45	6,435.13	7,692.54
Total Liabilities—Res. and Surplus	1,738.88	1,738.88	8,057.18	21,822.53	22,405.07
Percentage of Net Debt to Total Assets	100.00	100.00	94.7	29.0	23.2

“ A ”—Continued

of Hydro Municipalities as at December 31st, 1921

Waterford 1,083		Waterloo 5,744		Watford 1,033	
1920	1921	1920	1921	1920	1921
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
6,941.98	7,715.29	5,142.20 62,075.00 42,398.77	13,489.34 49,709.32 44,956.55	7,418.80	8,008.99
2,312.66	3,301.87	13,604.49	14,599.93	1,881.90	2,489.96
2,552.14	2,899.98	15,690.17	17,595.34	2,339.48	2,810.81
590.10	1,688.83	5,428.74	5,760.95	509.05	520.67
366.02	442.53	4,072.44	4,273.63	1,305.70	1,305.70
607.69	607.69	2,483.64 9,633.65	2,483.64 24,527.03	657.44	657.44
13,370.59	16,656.19	160,529.10	177,395.73	14,112.37	15,793.57
1,355.83	67.53 3,000.00	9,138.21	6,822.06	1,867.72	
3,541.54	312.10	13,602.91	5,319.75		
		4,622.78	6,026.74	15.82	
		3,168.00	3,456.00		
	260.46	5,497.94	7,256.11		
		457.93	567.39		
18,267.96	20,296.28	197,016.87	206,843.78	15,995.91	15,793.57
18,267.96	20,296.28	197,016.87	206,843.78	15,995.91	15,793.57
1,285.86		96,981.83	94,529.54	8,399.37	8,024.54
379.22	740.46	1,981.67	3,249.59		929.51
236.55	1,006.00			3,181.66	170.47
1,901.63	1,746.46	98,963.50	97,779.13	11,581.03	9,124.52
1,667.00	1,484.40	36,681.87	43,052.63	1,418.00	1,993.00
	260.46	5,497.94	7,256.11		
		457.93	567.39		
1,667.00	1,744.86	42,637.74	50,876.13	1,418.00	1,993.00
6,459.67	7,745.53	9,018.17	11,470.46	1,313.84	1,688.67
		3,168.00	3,456.00		
8,239.66	9,059.43	43,229.46	43,262.06	1,683.04	2,987.38
14,699.33	16,804.96	55,415.63	58,188.52	2,996.88	4,676.05
18,267.96	20,296.28	197,016.87	206,843.78	15,995.91	15,793.57
10.4	8.6	51.6	47.2	72.4	57.8

STATEMENT

Comparative Balance Sheets of Electric Departments

NIAGARA SYSTEM—Continued

Municipality Population	Welland 9,356		Wyoming 475	
	1920	1921	1920	1921
ASSETS	\$ c.	\$ c.	\$ c.	\$ c.
Lands and Buildings	27,977.28	27,977.28		
Sub-Station Equipment	46,220.22	49,160.74		
Distribution System Overhead	91,665.67	102,108.17	5,724.26	6,272.26
Dist. System, Underground				
Line Transformers	21,787.30	26,131.54	1,012.00	1,012.00
Meters	22,806.51	26,354.99	840.98	1,365.59
Street Light Equipment, Regular	3,408.96	4,112.61	262.32	262.32
Street Light Equip., Ornamental				
Miscellaneous Construction Exp.	10,267.38	13,017.21	735.00	805.20
Steam or Hydraulic Plant				
Old Plant				
Total Plant	224,133.32	248,862.54	8,574.56	9,717.37
Bank and Cash Balance	659.64	961.54		549.01
Securities and Investments				
Accounts Receivable	37,993.17	54,651.84	960.00	1,100.00
Inventories	6,748.73	6,711.41		
Sinking Fund on Local Debentures ..	19,209.30	31,475.39		
Equity in Hydro System				
Equity in Rural Lines	3,919.44	4,628.01		
Other Assets	5,175.45	4,143.24		
Total Assets	297,839.05	351,433.97	9,534.56	11,366.38
Deficit			1,771.49	1,343.34
Total	297,839.05	351,433.97	11,306.05	12,709.72
LIABILITIES				
Debenture Balance	165,000.00	200,000.00	5,459.58	8,288.60
Accounts Payable	23,204.61	28,383.98	3,459.09	1,572.97
Bank Overdraft	25,614.15	9,797.35	118.90	
Other Liabilities	4,107.17	16,143.24		
Total Liabilities	217,925.93	254,324.57	9,037.63	9,861.57
RESERVES				
Reserve for Depreciation	44,039.01	51,431.97	1,228.00	1,436.75
Reserve for Equity in H.E.P.C. Sys. ..				
Res. for Equity in H.E.P.C. (Rural) ...	3,919.44	4,628.01		
Total Reserves	47,958.45	56,059.98	1,228.00	1,436.75
SURPLUS				
Debentures Paid			1,040.42	1,411.40
Local Sinking Fund	19,209.30	31,475.39		
Additional Operating Surplus	12,745.37	9,574.03		
Total Surplus	31,954.67	41,049.42	1,040.42	1,411.40
Total Liabilities—Res. and Surplus. ...	297,839.05	351,433.97	11,306.08	12,709.72
Percentage of Net Debt to Total Assets	73.1	72.4	94.7	86.7

“ A ”—Continued

of Hydro Municipalities as at December 31st, 1921

Zurich P.V.		York Township	NIAGARA SYSTEM SUMMARY	
1920	1921	1921	1920	1921
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
.....	.....	.....	1,876,408.12	2,818,744.64
.....	.....	.....	3,015,703.68	5,133,322.15
3,639.76	3,745.67	169,086.51	6,919,995.01	6,433,499.32
.....	.....	.....	1,183,917.35	1,264,151.25
991.96	991.96	.....	2,101,465.93	2,538,437.83
1,047.41	1,149.14	.....	2,499,611.40	2,919,432.63
395.77	395.77	3,752.94	1,088,187.72	1,134,755.32
.....	.....	.....	478,425.26	529,837.95
273.30	273.30	6,636.11	2,460,879.41	2,756,487.60
.....	.....	.....	228,804.33	169,519.19
150.00	150.00	.....	562,946.83	613,619.05
6,498.20	6,705.84	179,475.56	22,416,345.04	26,311,806.93
2,474.77	802.86	19,772.79	873,481.38	769,442.64
.....	4,000.00	.....	221,850.11	321,475.53
1,662.50	.....	1,090.19	1,754,482.33	1,881,013.04
.....	.....	.....	1,182,496.59	1,333,781.17
.....	.....	.....	1,703,339.59	1,948,212.30
.....	.....	.....	478,946.91	662,884.62
.....	.....	.....	45,934.92	39,167.99
.....	.....	124.46	22,739.21	77,870.57
10,635.47	11,508.70	200,463.00	28,699,616.08	33,345,654.79
.....	.....	.....	.....	22,682.87
10,635.47	11,508.70	200,463.00	28,699,616.08	33,368,337.66
5,422.07	5,330.28	200,000.00	16,267,060.36	18,311,803.60
.....	533.38	.....	1,398,338.83	1,372,855.40
.....	.....	.....	347,580.76	727,938.21
.....	.....	463.00	623,012.67	898,824.29
5,422.07	5,863.66	200,463.00	18,635,992.62	21,311,421.50
732.00	1,008.00	.....	4,064,059.44	4,649,746.01
.....	.....	.....	478,946.91	666,454.19
.....	.....	.....	45,934.92	40,276.96
732.00	1,008.00	.....	4,588,941.27	5,356,477.16
169.54	261.33	.....	1,062,404.70	1,320,806.67
.....	.....	.....	1,703,339.59	1,948,212.30
4,311.86	4,375.71	.....	2,708,937.90	3,431,420.03
4,481.40	4,637.04	.....	5,474,682.19	6,700,439.00
10,635.47	11,508.70	200,463.00	28,699,616.08	33,368,337.66
50.9	50.9	100.00	65.0	63.8

STATEMENT

Comparative Balance Sheets of Electric Departments

SEVERN SYSTEM

Municipality	Alliston		Barrie		Beeton
Population	1,301		6,876		580
	1920	1921	1920	1921	1920
	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
ASSETS					
Lands and Buildings.....			12,266.06	12,403.21	
Sub-Station Equipment.....	675.73	675.73	4,682.98	4,682.98	428.50
Distribution System, Overhead....	20,368.03	20,510.82	29,123.17	32,806.69	10,104.76
Dist. System, Underground.....					
Line Transformers.....	4,315.15	4,492.26	7,096.90	7,550.38	1,674.96
Meters.....	4,389.87	4,450.97	20,969.54	23,131.94	785.20
Street Light Equipment, Regular....	1,330.21	1,330.21	3,357.02	3,436.79	913.98
Street Light Equip., Ornamental....					
Miscellaneous Construction Exp....	2,856.02	2,856.02	1,153.73	1,153.73	1,432.19
Steam or Hydraulic Plant.....					
Old Plant.....	8,079.10	8,079.10	44,609.11	44,593.61	
Total Plant.....	42,014.11	42,395.11	123,258.51	129,759.33	15,339.59
Bank and Cash Balance.....	2,441.73	1,570.27	3,118.57		44.14
Securities and Investments.....			33,000.00	45,000.00	
Accounts Receivable.....	392.20	277.64	19,610.91	8,648.80	1,510.07
Inventories.....			1,561.52	2,048.92	
Sinking Fund on Local Debentures....	1,212.62	1,688.30			
Equity in Hydro System.....			2,737.75	4,746.99	
Equity in Rural Lines.....					
Other Assets.....				14.22	
Total Assets.....	46,060.66	45,931.32	183,287.26	190,218.26	16,893.80
Deficit.....	5,982.04	7,772.08			6,341.52
Total.....	52,042.70	53,703.40	183,287.26	190,218.26	23,235.32
LIABILITIES					
Debenture Balance.....	40,000.00	39,782.50	32,545.81	30,557.28	14,537.17
Accounts Payable.....	8,131.08	7,952.10	2,283.75	6,435.76	7,123.32
Bank Overdraft.....				811.50	
Other Liabilities.....			350.00	350.00	
Total Liabilities.....	48,131.08	47,734.60	35,179.56	38,154.54	21,660.49
RESERVES					
Reserve for Depreciation.....	2,699.00	4,063.00	23,503.51	24,571.40	1,112.00
Reserve for Equity in H.E.P.C. Sys....			2,737.75	4,746.99	
Res. for Equity in H.E.P.C. (Rural)....					
Total Reserves.....	2,699.00	4,063.00	36,241.26	29,318.39	1,112.00
SURPLUS					
Debentures Paid.....		217.50	54,454.19	56,442.72	462.83
Local Sinking Fund.....	1,212.62	1,688.30			
Additional Operating Surplus.....			67,412.25	66,302.61	
Total Surplus.....	1,212.62	1,905.80	121,866.44	122,745.33	462.83
Total Liabilities—Res. and Surplus....	52,042.70	53,703.40	183,287.26	190,218.26	23,235.32
Percentage of Net Debt to Total Assets.....	104.5	104.0	19.5	20.5	128.2

“ A ”—Continued

of Hydro Municipalities as at December 31st, 1921

Beeton	Bradford		Coldwater		Collingwood	
580	907		663		6,016	
1921	1920	1921	1920	1921	1920	1921
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
428.50	388.50	388.50	275.00	275.00	4,343.60	11,819.32
10,278.29	13,866.48	14,133.28	5,857.20	6,099.18	11,212.59	11,212.59
					25,201.37	36,711.44
1,731.74	1,195.71	1,311.23	2,129.32	2,129.32	10,552.96	10,187.24
800.27	1,449.41	1,757.43	1,446.84	1,607.51	16,581.34	17,254.49
913.98	544.95	544.95	354.20	372.82	2,522.72	2,641.67
1,432.19	1,691.36	1,691.36	132.53	132.53	5,351.60	5,797.95
					352.17	352.17
15,584.97	19,136.41	19,826.75	10,195.09	10,616.36	86,118.35	95,976.87
0.01	75.97	75.83	2,502.33	765.42	3,291.74	
					5,000.00	5,000.00
270.07		480.20	583.45	1,928.74	10,982.37	6,682.77
	308.02	108.44	19.87		179.93	702.92
			425.27	696.55	9,009.37	14,945.96
15,855.05	19,520.40	20,491.22	13,726.01	14,007.07	114,581.76	123,308.52
7,137.51	7,843.22	10,023.83	386.16			
22,992.56	27,363.62	30,515.05	14,112.17	14,007.07	114,581.76	123,308.52
14,288.26	15,227.04	15,022.19	6,201.06	6,060.48	22,276.41	20,901.03
6,276.56	8,684.62	12,821.05	3,513.90	2,453.31	2,345.00	12,471.52
	1,750.00					1,147.54
					676.87	
20,564.82	25,661.66	27,843.24	9,714.96	8,513.79	25,498.28	34,520.09
1,716.00	1,329.00	2,094.00	3,173.00	3,458.37	21,465.05	24,105.43
			425.27	696.55	9,009.37	14,945.96
1,716.00	1,329.00	2,094.00	3,598.27	4,154.92	30,474.42	39,051.39
711.74	372.96	577.81	798.94	939.52	16,933.88	18,509.26
				398.84	41,675.18	31,227.78
711.74	372.96	577.81	798.94	1,338.36	58,609.06	49,737.04
22,992.56	27,363.62	30,515.05	14,112.17	14,007.07	114,581.76	123,308.52
130.0	131.5	135.6	73.0	60.8	24.1	28.1

STATEMENT

Comparative Balance Sheets of Electric Departments

**SEVERN
SYSTEM—Continued**

Municipality Population	Cookstown		Creemore		Elmvale
	P.V.		603		P.V.
	1920	1921	1920	1921	1920
	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
ASSETS					
Lands and Buildings.....	60.00	60.00			106.25
Sub-Station Equipment.....	392.95	392.95			
Distribution System, Overhead....	8,301.93	8,403.84	4,828.20	4,982.12	6,588.39
Dist. System, Underground.....					
Line Transformers.....	1,624.33	1,720.59	1,026.81	1,161.81	2,203.94
Meters.....	1,034.90	1,124.92	1,446.90	1,564.80	1,742.51
Street Light Equipment, Regular....	514.21	514.21	272.07	272.07	317.98
Street Light Equip., Ornamental....					
Miscellaneous Construction Exp....	1,453.55	1,453.55	185.41	185.41	455.93
Steam or Hydraulic Plant.....					
Old Plant.....			2,651.15	2,651.15	
Total Plant.....	13,381.87	13,670.06	10,410.54	10,817.36	11,415.00
Bank and Cash Balance.....	690.97	800.57	1,485.67	2,834.69	311.63
Securities and Investments.....					
Accounts Receivable.....	295.56	197.96	2,215.66	73.34	777.37
Inventories.....			113.11	27.51	137.25
Sinking Fund on Local Debentures....					
Equity in Hydro System.....			394.12	769.52	588.24
Equity in Rural Lines.....					
Other Assets.....				1,466.34	
Total Assets.....	14,368.40	14,668.59	14,619.10	15,988.76	13,229.49
Deficit.....	2,205.11	2,160.68			
Total.....	16,573.51	16,829.27	14,619.10	15,988.76	13,229.49
LIABILITIES					
Debenture Balance.....	9,147.15	9,014.23	5,267.52	5,016.88	5,993.90
Accounts Payable.....	5,697.51	5,870.27	282.81		
Bank Overdraft.....	434.00				
Other Liabilities.....					
Total Liabilities.....	15,278.66	14,884.50	5,550.33	5,016.88	5,993.90
RESERVES					
Reserve for Depreciation.....	942.00	1,459.00	1,748.00	2,087.37	2,760.00
Reserve for Equity in H.E.P.C. Sys....			394.12	769.52	588.24
Res. for Equity in H.E.P.C. (Rural)....					
Total Reserves.....	942.00	1,459.00	2,142.12	2,856.89	3,348.24
SURPLUS					
Debentures Paid.....	352.85	485.77	1,232.48	1,483.12	1,006.10
Local Sinking Fund.....					
Additional Operating Surplus.....			5,694.17	6,631.87	2,881.15
Total Surplus.....	352.85	485.77	6,926.65	8,114.99	3,887.25
Total Liabilities—Res. and Surplus	16,573.51	16,829.27	14,619.10	15,988.76	13,229.49
Percentage of Net Debt to Total Assets.....	106.3	101.2	39.0	31.2	47.4

“ A ”—Continued.
of Hydro Municipalities as at December 31st, 1921

Elmvale	Midland		Penetanguishene		Port McNichol	
P.V.	7,129		3,896		614	
1921	1920	1921	1920	1921	1920	1921
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
106.25	10,864.80	10,864.80	2,151.00	2,151.00	202.60	202.60
	19,026.49	19,926.49	3,507.71	3,507.71		
6,656.60	62,651.70	65,853.32	31,740.80	32,711.06	5,247.88	6,017.49
2,203.94	13,673.99	13,686.22	9,157.31	9,817.36	339.98	339.98
1,800.66	19,176.52	20,644.80	8,196.41	8,964.08	1,119.26	1,119.26
317.98	4,486.88	4,707.93	2,152.95	2,312.30	166.73	166.73
455.93	6,546.08	6,301.33	822.47	823.69	396.44	513.92
	15,415.62	14,515.62				
			2,374.20	2,374.20		
11,541.36	151,842.08	156,500.51	60,102.85	62,661.40	7,472.89	8,359.98
805.96	562.89	8,007.64		2,214.36	2.71	431.85
1,008.65		4,470.94	4,790.99	2,247.68		231.49
194.11	6,832.27	7,249.34	1,330.76	956.94	25.67	
1,030.92	4,775.81	8,943.52	7,707.60	10,721.47	100.61	210.09
14,581.00	164,013.05	185,171.95	73,932.20	78,801.85	7,601.88	9,233.41
					2,491.47	2,395.69
14,581.00	164,013.05	185,171.95	73,932.20	78,801.85	10,093.35	11,629.10
5,838.24	56,494.79	53,940.34	24,409.72	23,543.67	4,233.79	6,351.89
	24,936.96	35,957.11	8,500.00	9,136.91	4,100.74	2,887.01
			1,093.90			
5,838.24	81,431.75	89,897.45	34,003.62	32,680.58	8,334.53	9,238.90
3,307.00	26,156.95	30,703.31	16,958.48	18,926.48	892.00	1,232.00
1,030.92	4,775.81	8,943.52	7,707.60	10,721.47	100.61	210.09
4,337.92	30,932.76	39,646.83	24,666.08	29,647.95	992.61	1,442.09
1,161.76	25,575.20	28,129.65	6,590.28	7,456.33	766.21	948.11
3,243.08	26,073.34	27,498.02	8,672.22	9,016.99		
4,404.84	51,648.54	55,627.67	15,262.50	16,473.32	766.21	948.11
14,581.00	164,013.05	185,171.95	73,932.20	78,801.85	10,093.35	11,629.10
40.0	51.1	48.5	51.4	41.5	111.1	100.2

STATEMENT

Comparative Balance Sheets of Electric Departments

SEVERN SYSTEM—Continued

Municipality	Stayner		Thornton		Tottenham
Population	927		P.V.		452
	1920	1921	1920	1921	1920
	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
ASSETS					
Lands and Buildings			336.54		
Sub-Station Equipment	200.00	200.00			358.50
Distribution System, Overhead	8,254.96	8,526.56	5,890.19	5,923.77	7,202.69
Dist. System, Underground					
Line Transformers	2,901.85	2,761.04	609.38	606.88	845.64
Meters	1,971.02	2,349.30	335.99	351.87	1,130.21
Street Light Equipment, Regular	529.31	529.31	375.90	375.90	460.17
Street Light Equip., Ornamental					
Miscellaneous Construction Exp.	310.33	310.33	300.35	300.35	1,287.37
Steam or Hydraulic Plant					
Old Plant	4,132.41	4,132.41			361.45
Total Plant	18,299.88	18,808.95	7,848.35	7,558.77	11,646.03
Bank and Cash Balance	501.24	2,051.21		173.29	373.69
Securities and Investments					
Accounts Receivable	160.73	100.00			
Inventories	211.93	145.55			
Sinking Fund on Local Debentures					
Equity in Hydro System	554.31	840.89			
Equity in Rural Lines					
Other Assets					
Total Assets	19,728.09	21,946.60	7,848.35	7,732.06	12,019.72
Deficit			2,146.25	3,079.20	4,491.90
Total	19,728.09	21,946.60	9,994.60	10,811.26	16,511.62
LIABILITIES					
Debenture Balance	11,352.16	10,812.68	7,377.66	7,166.42	9,405.64
Accounts Payable	166.14	718.56	1,831.60	2,421.26	5,477.08
Bank Overdraft					
Other Liabilities			85.00		
Total Liabilities	11,518.30	11,531.24	9,294.26	9,587.68	14,882.72
RESERVES					
Reserve for Depreciation	2,809.42	3,472.88	578.00	890.00	567.44
Reserve for Equity in H.E.P.C. Sys	554.31	840.89			
Res. for Equity in H.E.P.C. (Rural)					
Total Reserves	3,363.73	4,313.77	578.00	890.00	567.44
SURPLUS					
Debentures Paid	2,647.84	3,187.32	122.34	333.58	1,061.40
Local Sinking Fund					
Additional Operating Surplus	2,198.22	2,914.27			
Total Surplus	4,846.06	6,101.59	122.34	333.58	1,061.46
Total Liabilities—Res. and Surplus	19,728.09	21,946.60	9,994.60	10,811.26	16,511.62
Percentage of Net Debt to Total Assets	60.0	52.6	118.4	124.2	123.8

“ A ”—Continued

of Hydro Municipalities as at December 31st, 1921

Tottenham	Victoria Harbor		Waubauskene		SEVERN SYSTEM SUMMARY	
452	1,462		P.V.			
1921	1920	1921	1920	1921	1920	1921
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
358.50					30,605.85	37,882.18
7,437.89	4,937.21	4,950.98	2,797.73	2,856.97	40,873.95	41,773.95
					262,961.69	274,860.30
1,117.48	825.92	825.92	416.56	416.56	60,590.71	62,059.95
1,315.78	1,570.94	1,676.40	859.57	918.54	84,206.43	90,833.05
460.17	145.69	145.69	159.22	159.22	18,604.19	19,201.93
1,287.37	642.64	642.64	257.66	257.66	25,275.66	25,595.96
361.45					77,975.21	77,059.71
12,338.64	8,121.40	8,241.63	4,490.74	4,608.95	601,093.69	629,267.00
162.61	427.67	453.05	333.83	1,293.95	16,164.78	21,640.71
168.14	458.77	484.22	110.00		38,000.00	50,000.00
			4.53		41,888.08	28,736.98
					10,724.86	11,433.73
	152.22	316.26	81.41	167.78	1,212.62	1,688.30
					26,526.71	43,389.95
						14.22
12,669.39	9,160.05	9,495.16	5,020.51	6,070.68	735,610.74	786,170.89
6,201.73					31,887.67	38,770.72
18,871.12	9,160.05	9,495.16	5,020.51	6,070.68	767,498.41	824,941.61
8,840.65	5,459.63	5,216.00	2,963.65	2,836.33	273,093.10	265,189.07
7,399.58	220.00		111.88	330.53	83,406.39	113,131.53
					3,277.90	1,959.04
					1,111.87	350.00
16,240.23	5,679.63	5,216.00	3,075.53	3,166.86	360,889.26	380,629.64
1,004.44	1,218.89	1,570.89	715.00	917.00	108,627.74	125,578.57
	152.22	316.26	81.41	167.78	26,526.71	43,389.95
1,004.44	1,371.11	1,887.15	796.41	1,084.78	135,154.45	168,968.52
1,626.45	1,040.37	1,284.00	536.35	663.67	131,954.28	124,158.31
					1,212.62	1,688.30
	1,068.95	1,108.01	612.22	1,155.37	138,287.80	149,496.84
1,626.45	2,109.32	2,392.01	1,148.57	1,819.04	27,454.70	275,343.45
18,871.12	9,160.06	9,495.16	5,020.51	6,070.68	767,498.41	824,941.61
128.5	63.0	55.0	62.2	52.2	50.9	48.5

STATEMENT

Comparative Balance Sheets of Electric Departments

EUGENIA SYSTEM

Municipality	Arthur		Chatsworth		Chesley
Population	1,218		326		1,721
	1920	1921	1920	1921	1920
	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
ASSETS					
Lands and Buildings			65.00	65.00	
Sub-Station Equipment					595.98
Distribution System, Overhead	14,959.42	15,075.50	3,653.92	3,677.56	16,784.13
Dist. System, Underground					
Line Transformers	3,849.78	3,849.78	546.92	667.69	3,880.77
Meters	1,888.32	2,073.40	543.78	573.08	3,674.55
Street Light Equipment, Regular	539.71	539.71	207.29	207.29	817.76
Street Light Equip., Ornamental					
Miscellaneous Construction Exp.	245.82	245.82	385.90	385.90	3,086.66
Steam or Hydraulic Plant					
Old Plant	1,101.47	1,101.47			5,503.60
Total Plant	22,584.52	22,885.68	5,402.81	5,576.52	34,343.45
Bank and Cash Balance	766.47	163.60	287.22	586.14	
Securities and Investments					
Accounts Receivable	506.45	219.09	445.97	425.51	
Inventories	5.00	25.00	10.00		205.00
Sinking Fund on Local Debentures			573.34	708.34	
Equity in Hydro System				207.96	
Equity in Rural Lines					
Other Assets					
Total Assets	23,862.44	23,293.37	6,719.34	7,504.47	34,548.45
Deficit	13,450.93	16,927.24	1,655.36	1,790.61	5,670.32
Total	37,313.37	40,220.61	8,374.70	9,295.08	40,218.77
LIABILITIES					
Debenture Balance	20,094.12	19,774.14	5,361.94	5,321.60	23,486.57
Accounts Payable	13,255.37	15,183.61	1,591.36	1,963.64	7,948.09
Bank Overdraft					978.68
Other Liabilities					
Total Liabilities	33,349.49	34,957.75	6,953.30	7,285.24	32,413.34
RESERVES					
Reserve for Depreciation	3,058.00	4,037.00	810.00	1,015.14	3,792.00
Reserve for Equity in H.E.P.C. Sys					
Res. for Equity in H.E.P.C. (Rural)				207.96	
Total Reserves	3,058.00	4,037.00	810.00	1,223.10	3,792.00
SURPLUS					
Debentures Paid	905.88	1,225.86	38.06	78.40	4,013.43
Local Sinking Fund			573.34	708.34	
Additional Operating Surplus					
Total Surplus	905.88	1,225.86	611.40	786.74	4,013.43
Total Liabilities—Res. and Surplus	37,313.37	40,220.61	8,374.70	9,295.08	40,218.77
Percentage of Net Debt to Total Assets	139.7	149.8	103.5	97.2	93.9

“ A ”—Continued
of Hydro Municipalities as at December 31st, 1921

Chesley 1,721	Derby Township		Dundalk 690		Durham 1,400	
1921	1920	1921	1920	1921	1920	1921
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
595.98					584.88	584.88
16,960.12	90.41	90.41	5,743.43	5,997.03	14,468.06	15,214.52
3,880.77	73.32	73.32	1,404.81	1,404.81	4,173.65	5,594.45
3,845.01	32.05	32.05	953.09	953.09	2,269.11	3,162.01
824.75			510.82	630.38	846.90	846.90
3,089.66	14.68	14.68	228.69	228.69	547.24	580.74
5,503.60			380.94	380.94	1,506.51	1,506.51
34,699.89	210.46	210.46	9,221.78	9,594.94	24,396.35	27,490.01
			279.15	1,189.64	1,475.67	647.49
			1,000.00	1,000.00		
				130.00	490.00	560.98
275.00			220.09			108.87
				567.51		1,106.57
34,974.89	210.46	210.46	10,721.02	12,482.09	26,362.02	29,913.92
4,570.83			733.48	41.72	4,583.41	2,633.10
39,545.72	210.46	210.46	11,454.50	12,523.81	30,945.43	32,547.02
22,487.65			4,201.46	4,014.01	15,413.25	14,768.71
6,712.01	210.46	210.46	3,810.77	3,908.57	10,014.43	1,938.72
352.71						7,672.53
29,552.37	210.46	210.46	8,012.23	7,922.58	25,427.68	24,379.96
4,981.00			1,306.83	1,710.83	2,931.00	3,829.29
				567.51		1,106.57
4,981.00			1,306.83	2,278.34	2,931.00	4,935.86
5,012.35			2,135.44	2,322.89	2,586.75	3,231.29
5,012.35			2,135.44	2,322.89	2,586.75	3,231.29
39,545.72	210.46	210.46	11,454.50	12,523.81	30,945.43	32,547.02
84.2	100.0	100.0	74.7	63.2	96.4	81.6

STATEMENT

Comparative Balance Sheets of Electric Departments

EUGENIA SYSTEM—Continued

Municipality Population	Elmwood		Flesherton		Grand Valley 595
	P.V.		417		1920
	1920	1921	1920	1921	1920
	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
ASSETS					
Lands and Buildings.....					36.50
Sub-Station Equipment.....					
Distribution System, Overhead...	4,625.34	4,625.34	4,464.40	4,531.29	8,658.20
Dist. System, Underground.....					
Line Transformers.....	803.88	803.88	759.83	324.62	711.05
Meters.....	556.39	622.53	664.49	832.80	1,260.48
Street Light Equipment, Regular.	255.71	297.48	384.61	384.61	458.21
Street Light Equip., Ornamental..					
Miscellaneous Construction Exp..	1,093.62	1,093.62	869.12	869.12	202.70
Steam or Hydraulic Plant.....					
Old Plant.....					919.85
Total Plant.....	7,334.94	7,442.85	7,142.45	6,942.44	12,246.99
Bank and Cash Balance.....	38.58	101.23	1,329.10	391.64	817.10
Securities and Investments.....					
Accounts Receivable.....	67.71	35.39		971.38	26.93
Inventories.....				25.00	17.00
Sinking Fund on Local Debentures	80.64	104.16			
Equity in Hydro System.....				315.42	
Equity in Rural Lines.....			26.30	39.64	
Other Assets.....					
Total Assets.....	7,521.87	7,683.63	8,497.85	8,685.52	13,108.02
Deficit.....	1,695.12	1,857.92	2,373.38	2,667.49	2,351.55
Total.....	9,216.99	9,541.55	10,871.23	11,353.01	15,459.57
LIABILITIES					
Debenture Balance.....	6,615.78	6,404.02	6,242.57	6,136.92	9,691.86
Accounts Payable.....	1,434.35	1,592.42	2,879.93	2,943.43	2,756.57
Bank Overdraft.....					
Other Liabilities.....					
Total Liabilities.....	8,050.13	7,996.44	9,122.50	9,080.35	12,448.43
RESERVES					
Reserve for Depreciation.....	502.00	644.97	1,265.00	1,354.52	1,703.00
Reserve for Equity in H.E.P.C. Sys				315.42	
Res. for Equity in H.E.P.C. (Rural)			26.30	39.64	
Total Reserves.....	502.00	644.97	1,291.30	1,709.58	1,703.00
SURPLUS					
Debentures Paid.....	584.22	795.98	457.43	563.08	1,308.14
Local Sinking Fund.....	80.64	104.16			
Additional Operating Surplus.....					
Total Surplus.....	664.86	900.14	457.43	563.08	1,308.14
Total Liabilities—Res. and Surplus	1,166.86	9,541.55	10,871.23	11,353.01	15,459.57
Percentage of Net Debt to Total Assets.....	107.0	104.0	107.4	104.8	95.0

“ A ”—Continued

of Hydro Municipalities as at December 31st, 1921

Grand Valley 595	Hanover 2,842		Holstein P.V.		Kincardine 2,036	Lucknow 918
1921	1920	1921	1920	1921	1921	1921
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
36.50	64.80	64.80			3,734.20	
	1,124.76	6,112.60			3,580.18	
8,738.45	40,848.51	42,792.61	1,911.30	1,939.55	32,809.77	13,692.64
711.05	10,809.98	13,759.79	455.22	455.22	3,633.21	1,920.16
1,370.74	9,376.46	11,484.00	255.84	255.84	4,318.76	1,183.34
458.21	2,262.82	2,262.82	168.82	168.69	3,796.16	972.06
202.70	5,373.65	6,407.38	170.25	170.25	4,566.24	1,951.98
919.85	2,386.30	2,370.91				
12,437.50	72,247.28	85,254.91	2,961.30	2,989.55	56,438.52	19,720.18
2,105.75	15.00		281.40	61.53	416.77	163.21
37.84	2,155.55	8,251.23	102.88	275.57	558.52	
17.00	1,412.92	1,375.43	60.66	15.00	2,240.36	25.00
					3,342.36	
		2,758.90				
14,598.09	75,830.75	94,881.57	3,406.24	3,341.65	62,996.53	19,908.39
991.53	5,509.61	4,666.98	3,895.96	4,921.02	6,817.80	548.02
15,589.62	81,340.36	99,548.55	7,302.20	8,262.67	69,814.33	20,456.41
9,314.34	53,530.20	66,795.08	2,281.87	2,169.42	43,112.62	10,450.99
2,477.97	12,719.11	10,212.16	4,247.46	5,083.93	22,271.97	9,743.25
	4,227.25	6,446.39				
11,792.31	70,476.56	83,453.63	6,529.33	7,253.35	65,384.59	20,194.24
2,111.65	6,394.00	9,390.00	292.69	416.69		
2,111.65	6,394.00	9,390.00	292.69	416.69		
1,685.66	4,469.80	6,704.92	480.18	592.63	1,087.38	262.17
					3,342.36	
1,685.66	4,469.80	6,704.92	480.18	592.63	4,429.74	262.17
15,589.62	81,340.36	99,548.55	7,302.20	8,262.67	69,814.33	20,456.41
80.7	92.9	87.9	162.5	217.5	96.3	101.5

STATEMENT

Comparative Balance Sheets of Electric Departments

EUGENIA SYSTEM—Continued

Municipality	Markdale		Mt. Forest		Neustadt
Population	927		1,825		444
	1920	1921	1920	1921	1920
	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
ASSETS					
Lands and Buildings.....			3,725.00	3,725.00	
Sub-Station Equipment.....	780.80	780.80	686.75	686.75	
Distribution System, Overhead....	7,017.60	7,136.28	15,819.42	16,446.19	8,946.44
Dist. System, Underground.....					
Line Transformers.....	1,967.74	2,108.87	3,375.54	3,375.54	2,702.97
Meters.....	1,171.95	1,866.33	3,233.81	3,735.19	1,290.33
Street Light Equipment, Regular....	530.79	530.79	1,655.77	1,655.77	496.41
Street Light Equip., Ornamental....					
Miscellaneous Construction Exp....	587.06	587.06	1,796.02	1,796.02	1,495.88
Steam or Hydraulic Plant.....					
Old Plant.....	2,080.65	2,080.65	3,984.47	3,958.97	1,097.60
Total Plant.....	14,682.59	15,090.78	34,276.78	35,379.43	16,029.63
Bank and Cash Balance.....	1,733.18	731.58	4,952.37	385.91	1,225.95
Securities and Investments.....				3,887.83	
Accounts Receivable.....	155.86	378.80	20.00	170.63	1,597.00
Inventories.....	2,440.01	2,093.76	1,520.90	964.55	455.99
Sinking Fund on Local Debentures					
Equity in Hydro System.....				1,653.59	
Equity in Rural Lines.....	73.08	105.07			
Other Assets.....					
Total Assets.....	19,084.72	18,399.99	40,770.05	42,441.94	19,308.57
Deficit.....			10,912.39	13,292.76	4,177.60
Total.....	19,084.72	18,399.99	51,682.44	55,734.70	23,486.17
LIABILITIES					
Debenture Balance.....	8,358.65	8,206.23	23,931.90	23,145.38	10,318.06
Accounts Payable.....	6,030.85	3,985.01	15,987.84	17,615.48	11,532.17
Bank Overdraft.....					
Other Liabilities.....					
Total Liabilities.....	14,389.50	12,191.24	39,919.74	40,760.86	21,850.23
RESERVES					
Reserve for Depreciation.....	1,731.20	2,331.20	4,736.00	5,507.03	954.00
Reserve for Equity in H.E.P.C. Sys				1,653.59	
Res. for Equity in H.E.P.C. (Rural)	73.08	105.07			
Total Reserves.....	1,804.28	2,436.27	4,736.00	7,160.62	954.00
SURPLUS					
Debentures Paid.....	641.35	793.77	7,026.70	7,813.22	681.94
Local Sinking Fund.....					
Additional Operating Surplus.....	2,249.59	2,978.71			
Total Surplus.....	2,890.94	3,772.48	7,026.70	7,813.22	681.94
Total Liabilities—Res. and Surplus	19,084.72	18,399.99	51,682.44	55,734.70	23,486.17
Percentage of Net Debt to Total Assets.....	75.4	66.3	97.9	96.0	113.2

“ A ”—Continued

of Hydro Municipalities as at December 31st, 1921

Neustadt 444	Orangeville 2,427		Owen Sound 12,014		Priceville P.V.	Ripley P.V.
1921	1920	1921	1920	1921	1921	1921
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
.....	2,400.00	2,517.00	28,953.74	28,953.74	68.00	.....
.....	1,169.00	1,169.00	7,526.18	8,464.45	.....	.....
9,465.54	21,163.87	21,407.50	60,786.79	65,948.46	4,621.29	8,389.06
.....
3,490.29	2,595.27	2,760.57	22,958.86	24,234.90	499.70	2,592.36
1,308.92	3,797.49	4,179.29	28,507.44	33,214.26	247.16	438.91
496.41	1,139.49	1,139.49	9,547.84	10,179.09	139.88	834.03
1,495.88	.....	.....	500.00	500.00	.....	.....
.....	3,331.69	3,331.69	2,203.96	2,003.96	833.90	1,164.99
.....	.....	.....	33,282.00	33,282.00	.....	.....
1,097.60	3,204.99	3,204.99	.....	.....	.....	.....
.....
17,354.64	38,801.80	39,709.53	194,266.81	206,780.86	6,409.93	13,419.35
479.81	1,119.50	1,232.37	4,506.91	.....	98.63	2,109.32
.....
479.81	33.35	34.93	6,803.33	5,512.87	114.43	.....
483.79	753.05	568.16	18,816.69	16,526.65	.....	.....
.....	.....	.....	94,869.39	102,633.22	.....	.....
.....	.....	.....	.....	7,771.53	.....	.....
.....	.....	.....	.....	217.40	.....	.....
18,798.05	40,707.70	41,544.99	319,263.13	339,442.53	6,622.99	15,528.67
7,704.21	9,436.05	10,095.32	.....	.....	229.74	257.72
.....
26,502.26	50,143.75	51,640.31	319,263.13	339,442.53	6,852.73	15,786.39
.....
15,788.18	29,748.45	28,535.37	141,000.00	141,000.00	5,836.90	13,770.82
8,017.26	11,446.25	11,445.81	8,210.79	20,069.53	852.73	1,814.45
.....	.....	.....	.....	5,120.56	.....	.....
.....
23,805.44	41,194.70	39,981.18	149,210.79	166,190.09	6,689.63	15,585.27
.....
1,485.00	4,647.50	6,144.50	23,577.82	32,444.07	.....	.....
.....	.....	.....	.....	7,771.53	.....	.....
.....
1,485.00	4,647.50	6,144.50	23,577.82	40,215.60	.....	.....
.....
1,211.82	4,301.55	5,514.63	.....	102,633.22	163.10	201.12
.....	.....	.....	94,869.39	.....	.....	.....
.....	.....	.....	51,605.13	30,403.62	.....	.....
1,211.82	4,301.55	5,514.63	146,474.52	133,036.84	163.10	201.12
26,502.26	50,143.75	51,640.31	319,263.13	339,442.53	6,852.73	15,786.39
.....
126.7	101.2	96.4	46.7	48.9	101.2	100.0

STATEMENT

Comparative Balance Sheets of Electric Departments

EUGENIA SYSTEM—Continued

Municipality Population	Shelburne		Tara		Teeswater
	1,075		537		807
	1920	1921	1920	1921	1921
ASSETS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Lands and Buildings.....	800.00	800.00			
Sub-Station Equipment.....	566.60	566.60			330.31
Distribution System, Overhead...	11,964.34	12,825.50	10,069.52	10,194.26	13,719.15
Dist. System, Underground.....					
Line Transformers.....	2,357.69	3,137.39	1,674.39	1,706.89	2,394.57
Meters.....	2,501.04	3,145.84	1,002.48	1,165.78	1,538.04
Street Light Equipment, Regular.	971.65	971.65	463.30	463.30	1,297.97
Street Light Equip., Ornamental.					
Miscellaneous Construction Exp..	2,189.46	2,189.46	1,871.56	1,871.56	1,893.39
Steam or Hydraulic Plant.....					
Old Plant.....	739.50	739.50			5,361.36
Total Plant.....	22,090.28	24,375.94	15,081.25	15,401.79	26,534.79
Bank and Cash Balance.....		881.46	829.89	929.26	1,779.44
Securities and Investments.....					
Accounts Receivable.....	553.23	617.74	336.24		236.49
Inventories.....	144.45		16.77	15.00	
Sinking Fund on Local Debentures					1,560.01
Equity in Hydro System.....					
Equity in Rural Lines.....					
Other Assets.....					
Total Assets.....	22,787.96	25,875.14	16,264.15	16,346.05	30,110.73
Deficit.....	4,085.74	3,831.89	7,737.02	8,567.14	2,524.62
Total.....	26,873.70	29,707.03	24,001.17	24,913.19	32,635.35
LIABILITIES					
Debenture Balance.....	17,283.34	16,556.18	12,565.99	14,070.08	27,433.36
Accounts Payable.....	3,854.42	6,246.03	9,466.17	7,802.19	3,075.34
Bank Overdraft.....	444.28				
Other Liabilities.....					
Total Liabilities.....	21,582.04	22,802.21	22,032.16	21,872.27	30,508.70
RESERVES					
Reserve for Depreciation.....	2,655.00	3,541.00	1,035.00	1,611.00	
Reserve for Equity in H.E.P.C. Sys					
Res. for Equity in H.E.P.C. (Rural)					
Total Reserves.....	2,655.00	3,541.00	1,035.00	1,611.00	
SURPLUS					
Debentures Paid.....	2,636.66	3,363.82	934.01	1,429.92	566.64
Local Sinking Fund.....					1,560.01
Additional Operating Surplus.....					
Total Surplus.....	2,636.66	3,363.82	934.01	1,429.92	2,126.65
Total Liabilities—Res. and Surplus	26,873.70	29,707.03	24,001.17	24,913.19	32,635.35
Percentage of Net Debt to Total Assets.....	94.7	88.0	135.5	134.2	101.3

“ A ”—Continued

of Hydro Municipalities as at December 31st, 1921

			WASDELLS SYSTEM			
Wingham 2,337	EUGENIA SYSTEM SUMMARY		Beaverton 975		Breachin P.V.	
1921	1920	1921	1920	1921	1920	1921
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
9,000.00	36,045.04	48,964.24	250.00	250.00		
4 657.93	13,034.95	27,529.48				
28,393.31	251,975.10	364,691.33	8,050.98	8,332.74	1,496.59	1,496.59
10,498.45	65,101.67	93,878.28	2,236.28	2,221.28	1,149.20	936.80
6,944.58	63,525.10	88,490.95	2,569.49	2,679.42	371.77	371.77
2,948.07	21,257.77	32,045.51	453.44	501.09	69.89	69.89
	500.00	1,995.88				
3,540.89	25,793.96	39,019.70	2,085.67	2,085.67	266.26	266.26
13,200.00		46,482.00				
15,392.64	56,187.88	43,618.99	3,772.42	3,772.42		
94,575.87	533,321.47	786,716.36	19,418.28	19,842.62	3,353.71	3,141.31
5,244.81	19,657.49	19,699.59	107.96	2,602.61	506.32	446.80
	1,000.00	4,887.83				
2,331.35	13,294.50	21,342.56	242.00	559.30	180.05	152.38
177.93	26,078.53	24,936.50	1,121.43	807.42	96.50	96.50
	95,523.37	108,348.09				
		11,622.58	637.21	1,252.91	418.70	857.51
	99.38	144.71	191.62	290.74	32.83	45.18
		217.40			72.32	
102,329.96	688,974.74	977,915.62	21,718.50	25,355.60	4,660.43	4,739.68
2,728.48	78,267.92	97,666.14	1,374.49		3,751.71	3,838.64
105,058.44	767,242.66	1,075,581.76	23,092.99	25,355.60	8,412.14	8,578.32
74,727.57	390,126.01	579,819.57	13,474.52	13,162.73	1,604.84	1,571.19
6,292.94	127,396.39	171,458.91	1,536.16	4,751.99	5,701.61	5,282.63
	5,650.21	11,919.66				
		7,672.53				
81,020.51	523,172.61	770,870.67	18,710.68	17,914.72	7,306.45	6,853.82
2,660.00	61,391.04	85,214.80	2,028.00	2,649.00	509.00	643.00
		11,622.58	637.21	1,252.91	418.70	857.51
	99.38	144.71	191.62	290.74	32.83	45.18
2,660.00	61,490.42	96,982.09	2,856.83	4,192.65	1,105.69	1,545.69
21,377.93	33,201.54	65,998.58	1,525.48	1,837.27	145.16	178.81
	95,523.37	108,348.09				
	53,854.72	33,382.33		1,410.96		
21,377.93	182,579.63	207,729.00	1,525.48	3,248.23	145.16	178.81
105,058.44	767,242.66	1,075,581.76	23,092.99	25,355.60	8,412.14	8,578.32
79.3	82.0	78.8	86.1	70.8	156.8	144.6

STATEMENT

Comparative Balance Sheets of Electric Departments

WASDELLS SYSTEM—Continued

Municipality Population	Brock Township		Cannington 896		Kirkfield P-V.
	1920	1921	1920	1921	1920
	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
ASSETS					
Lands and Buildings.....					
Sub-Station Equipment.....					
Distribution System, Overhead.....			6,983.61	7,321.97	4,889.98
Dist. System, Underground.....					
Line Transformers.....	1,742.56	1,742.56	1,770.29	1,770.29	1,240.80
Meters.....	795.70	795.70	2,603.48	2,728.71	340.05
Street Light Equipment, Regular.....			533.48	563.03	354.11
Street Light Equip., Ornamental.....					
Miscellaneous Construction Exp.....	61.74	61.74	506.58	506.58	301.53
Steam or Hydraulic Plant.....					
Old Plant.....			3,609.37	3,609.37	
Total Plant.....	2,600.00	2,600.00	16,006.81	16,499.95	65,126.47
Bank and Cash Balance.....			912.04	756.77	485.89
Securities and Investments.....					
Accounts Receivable.....			375.29	457.26	
Inventories.....			705.60	1,300.90	
Sinking Fund on Local Debentures.....					
Equity in Hydro System.....			598.17	1,120.46	
Equity in Rural Lines.....					
Other Assets.....					
Total Assets.....	2,600.00	2,600.00	18,597.91	20,135.34	6,612.36
Deficit.....			5,024.90	2,874.60	
Total.....	2,600.00	2,600.00	23,622.81	23,009.94	6,612.36
LIABILITIES					
Debenture Balance.....	2,525.43	2,446.75	13,777.37	13,444.74	6,000.00
Accounts Payable.....			5,698.64	3,985.48	506.70
Bank Overdraft.....					
Other Liabilities.....					
Total Liabilities.....	2,525.43	2,446.75	19,476.01	17,430.22	6,506.70
RESERVES					
Reserve for Depreciation.....			2,326.00	2,904.00	
Reserve for Equity in H.E.P.C. Sys.....			598.17	1,120.46	
Res. for Equity in H.Et.P.C. (Rural).....					
Total Reserves.....			2,924.17	4,024.46	
SURPLUS					
Debentures Paid.....	74.57	153.25	1,222.63	1,555.26	
Local Sinking Fund.....					
Additional Operating Surplus.....					105.66
Total Surplus.....	74.57	153.25	1,222.63	1,555.26	105.66
Total Liabilities—Res. and Surplus.....	2,600.00	2,600.00	23,622.81	23,009.94	6,612.36
Percentage of Net Debt to Total Assets.....	97.1	94.2	104.8	86.6	98.4

“ A ”—Continued

of Hydro Municipalities as at December 31st, 1921

Kirkfield	Sunderland		Woodville		WASDELLS SYSTEM SUMMARY	
P.V.	P.V.		448			
1921	1920	1921	1920	1921	1920	1921
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
					250.00	250.00
5,041.33	3,115.54	3,205.34	1,973.79	2,065.16	26,510.49	27,463.13
428.20	996.99	1,250.16	700.96	804.32	8,837.08	7,411.05
390.60	1,053.07	1,101.50	1,068.67	1,319.21	8,802.23	8,591.21
368.29	226.25	240.33	127.31	127.31	1,764.48	1,869.94
301.53	142.22	142.22	251.91	251.91	3,615.91	3,554.17
	2,030.00	2,030.00	2,182.50	2,182.50	11,594.29	11,594.29
6,529.95	7,564.07	7,969.55	6,305.41	6,750.41	61,374.48	60,733.79
303.87	144.56	62.77	195.27		2,352.04	4,172.82
		116.90	81.50	195.93	878.84	1,481.77
	59.99	88.78			1,983.52	2,293.60
	519.25	1,043.22	482.94	1,018.17	2,656.27	5,292.27
			25.68	75.73	250.13	411.65
					72.32	
6,833.82	8,287.87	9,281.22	7,090.53	8,040.24	69,567.60	74,385.90
244.17	5,432.62	4,965.84	3,994.25	3,271.76	19,577.97	15,195.01
7,077.99	13,720.49	14,247.06	11,084.78	11,312.00	89,145.57	89,580.91
5,826.90	6,049.52	5,884.75	5,034.62	4,912.59	48,466.30	44,802.90
828.99	5,475.12	5,217.72	4,354.16	3,829.05	26,972.39	23,895.86
				68.15		68.15
6,655.89	11,524.64	11,102.47	9,388.78	8,809.79	75,438.69	68,766.91
249.00	926.12	1,186.12	722.00	820.90	6,511.12	8,452.02
	519.25	1,043.22	482.94	1,018.17	2,656.27	5,292.27
			25.68	75.73	250.13	411.65
249.00	1,445.37	2,229.34	1,230.62	1,914.80	9,417.52	14,155.94
173.10	750.48	915.25	465.38	587.41	4,183.70	5,247.10
					105.66	1,410.96
173.10	750.48	915.25	465.38	587.41	4,289.36	6,658.06
7,077.99	13,720.49	14,247.06	11,084.78	11,312.00	89,145.57	89,580.91
97.3	139.1	119.6	132.3	109.5	108.4	92.5

STATEMENT

Comparative Balance Sheets of Electric Departments

MUSKOKA SYSTEM

Municipality	Gravenhurst		Huntsville		MUSKOKA SYSTEM SUMMARY	
Population	1,432		2,176			
	1920	1921	1920	1921	1920	1921
	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
ASSETS						
Lands and Buildings	12,258.29	12,258.29	326.49	326.49	12,584.78	12,584.78
Sub-Station Equipment	12,030.88	12,209.74	647.30	647.30	12,678.18	12,857.04
Distribution System, Overhead	26,779.25	26,851.15	10,074.18	10,665.91	36,853.43	37,517.06
Dist. System, Underground						
Line Transformers	1,133.74	1,518.59	2,895.50	2,955.20	4,029.24	4,473.79
Meters	4,379.01	4,719.18	4,897.38	5,079.26	9,276.39	9,798.44
Street Light Equipment, Regular	695.45	695.45	1,036.50	1,036.50	1,731.95	1,731.95
Street Light Equip., Ornamental						
Miscellaneous Construction Exp.	1,542.00	1,542.00	279.92	279.92	1,821.92	1,821.92
Steam or Hydraulic Plant						
Old Plant	7,610.69	7,610.69	5,436.20	5,436.20	13,046.89	13,046.89
Total Plant	66,429.31	67,405.09	25,593.47	26,426.78	92,022.78	93,831.87
Bank and Cash Balance	3,099.35	3,527.63	2,566.01	6,154.76	5,665.36	9,682.39
Securities and Investments						
Accounts Receivable	2,098.26	2,098.26	130.67	2,386.55	2,228.93	4,484.81
Inventories	2,142.43	2,568.27	2,956.82	2,448.62	5,099.25	5,016.89
Sinking Fund on Local Debentures	2,470.13	2,770.49			2,470.13	2,770.49
Equity in Hydro System		750.60				750.60
Equity in Rural Lines						
Other Assets						
Total Assets	76,239.48	79,120.34	31,246.97	37,416.71	107,486.45	116,537.05
Deficit	8,944.17	7,010.75	6,560.32		15,504.49	7,010.75
Total	85,183.65	86,131.09	37,807.29	37,416.71	122,990.94	123,547.80
LIABILITIES						
Debenture Balance	39,926.97	38,122.60	17,746.75	16,781.42	57,673.72	54,904.02
Accounts Payable	8,928.08	6,689.56	13,215.75	8,978.66	22,143.83	15,668.22
Bank Overdraft						
Other Liabilities						
Total Liabilities	48,855.05	44,812.16	30,962.50	25,760.08	79,817.55	70,572.24
RESERVES						
Reserve for Depreciation	9,817.00	11,952.00	3,458.00	4,424.00	13,275.00	16,376.00
Reserve for Equity in H.E.P.C. Sys		750.60				750.60
Res. for Equity in H.E.P.C. (Rural)						
Total Reserves	9,817.00	12,702.60	3,458.00	4,424.00	13,275.00	17,126.60
SURPLUS						
Debentures Paid	24,041.47	25,845.84	3,386.79	4,352.12	27,428.26	30,197.96
Local Sinking Fund	2,470.13	2,770.49			2,470.13	2,770.49
Additional Operating Surplus				2,880.51		2,880.51
Total Surplus	26,511.60	28,616.33	3,386.79	7,232.63	29,898.39	35,848.96
Total Liabilities—Res. and Surplus	85,183.65	86,131.09	37,807.29	37,416.71	122,990.94	123,547.80
Percentage of Net Debt to Total Assets	64.1	56.7	99.1	68.8	74.3	60.6

“ A ”—Continued

of Hydro Municipalities as at December 31st, 1921

ST. LAWRENCE
SYSTEM

Alexandria	Apple Hill	Brockville		Chesterville	
2,274	P.V.	9,254		919	
1921	192	1920	1921	1920	1921
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
202.00	169.06	27,994.53	27,994.53	250.00	250.00
19,351.72	2,703.68	57,658.98	60,140.61	5,723.96	6,164.82
5,459.76	1,165.70	18,688.90	19,659.27	1,937.63	1,930.73
4,139.67	476.49	21,472.16	24,311.12	2,094.84	2,273.19
1,988.99	398.97	14,651.81	14,655.61	318.22	318.22
5,318.02	133.73	4,759.65	5,686.59	610.68	610.68
4,734.89	709.55	53,445.98	53,445.98		
41195.05	5,757.18	198,672.01	205,893.71	10,928.43	11,547.64
2,614.67	43.45	200.00	200.00		
579.38	300.41	21,968.41	25,562.67	1,448.94	950.67
1,290.70		4,330.27	2,774.62	1,408.45	2,290.52
		42,467.29	50,349.30		
			4,970.18	1,232.00	2,505.64
		1,808.91			
45,679.80	6,101.04	269,446.89	289,750.48	15,017.82	17,294.47
2,123.86	52.51	7,201.77	39,637.41	6,124.44	3,678.52
47,803.66	6,153.55	276,648.66	329,387.89	21,142.26	20,972.99
41,816.37	5,000.00	135,759.67	130,893.85	5,567.51	5,331.55
4,063.57	1,153.55	21,774.83	16,726.53	10,876.97	8,237.66
		51,378.20	53,794.88	163.29	825.69
45,879.94	6,153.55	208,912.70	201,415.26	16,607.77	14,394.90
		3,675.00	9,547.00	2,370.00	2,904.00
			4,970.18	1,232.00	2,505.64
		3,675.00	14,517.18	3,602.00	5,409.64
1,923.72		21,593.67	63,106.15	932.49	1,168.45
		42,467.29	50,349.30		
1,923.72		64,060.96	113,455.45	932.49	1,168.45
47,803.66	6,153.55	276,648.66	329,387.89	21,142.26	20,972.99
100.6	100.8	77.2	69.5	11.07	83.3

STATEMENT

Comparative Balance Sheets of Electric Departments

**ST. LAWRENCE
SYSTEM—Continued**

Municipality	Lancaster	Martin- town P.V.	Maxville	Prescott	
Population	639		721	2,758	
	1921	1921	1921	1920	1921
	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
ASSETS					
Lands and Buildings.....		126.15		2,761.54	2,761.54
Sub-Station Equipment.....			407.79		
Distribution System, Overhead....	5,963.47	2,400.72	10,142.31	26,658.19	27,160.31
Dist. System, Underground.....					
Line Transformers.....	1,064.35	766.16	1,732.20	6,932.93	6,938.98
Meters.....	844.05	475.07	1,388.10	8,957.51	9,325.39
Street Light Equipment, Regular..	567.75	335.26	1,270.70	1,490.28	1,490.28
Street Light Equip., Ornamental...					
Miscellaneous Construction Exp...	1,053.60	653.27	2,347.27	1,346.73	1,340.70
Steam or Hydraulic Plant.....					
Old Plant.....				12,108.35	12,108.35
Total Plant.....	9,493.22	4,756.63	17,288.37	60,255.53	61,125.55
Bank and Cash Balance.....	415.60	1,190.12		1,549.96	3,389.41
Securities and Investments.....					
Accounts Receivable.....		264.25	51.59	6,759.70	6,758.51
Inventories.....				8.30	
Sinking Fund on Local Debentures				1,724.91	2,128.31
Equity in Hydro System.....				930.00	1,916.21
Equity in Rural Lines.....					
Other Assets.....					.15
Total Assets.....	9,908.82	6,211.00	17,339.96	71,228.40	75,318.14
Deficit.....	1,526.23	84.91	1,918.96		
Total.....	11,435.05	6,295.91	19,258.92	71,228.40	75,318.14
LIABILITIES					
Debenture Balance.....	9,617.02	5,836.90	15,541.13	18,831.73	17,996.88
Accounts Payable.....	1,464.63	295.91	2,143.61	8,174.67	3,581.68
Bank Overdraft.....			1,115.31		
Other Liabilities.....					
Total Liabilities.....	11,081.65	6,132.81	18,800.05	27,006.40	21,578.56
RESERVES					
Reserve for Depreciation.....				13,070.00	15,492.00
Reserve for Equity in H.E.P.C. Sys				930.00	1,916.21
Res. for Equity in H.E.P.C. (Rural)					
Total Reserves.....				14,000.00	17,408.21
SURPLUS					
Debentures Paid.....	353.40	163.10	458.87	5,147.61	5,982.46
Local Sinking Fund.....				1,724.91	2,128.31
Additional Operating Surplus....				23,349.48	28,220.60
Total Surplus.....	353.40	163.10	458.87	30,222.00	36,331.37
Total Liabilities—Res. and Surplus	11,435.05	6,295.91	19,258.92	71,228.40	75,318.14
Percentage of Net Debt to Total Assets.....	112.2	98.8	108.7	38.4	28.6

"A"—Continued

of Hydro Municipalities as at December 31st, 1921

Williamsburg P.V.		Winchester 1,028		ST. LAWRENCE SYSTEM SUMMARY	
1920	1921	1920	1921	1920	1921
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
		224.15	224.15	31,230.22	31,727.43
					407.79
1,597.74	1,597.74	7,380.70	7,478.59	99,019.57	143,103.97
297.89	297.89	989.01	989.01	28,839.46	40,004.05
583.77	650.47	2,216.91	2,400.74	35,325.19	46,284.29
74.41	74.41	564.98	564.98	17,099.70	21,665.17
4.00	4.00	343.94	343.94	7,065.00	17,491.80
		1,100.00	1,100.00	66,654.33	72,098.77
2,557.81	2,624.51	12,819.69	13,101.41	285,233.47	372,783.27
1,337.75	1,234.76	1,233.06		4,320.77	9,088.81
309.94	27.06	290.33	2,229.74	30,777.32	36,724.28
		2,934.10	3,338.46	8,681.12	9,694.30
				44,192.20	52,477.61
	81.49	560.76	1,167.76	2,722.76	10,641.28
				1,809.91	15
4,205.50	3,967.82	17,837.94	19,837.37	377,736.55	491,408.90
665.37	448.53	1,895.15		15,886.73	49,470.93
4,870.87	4,416.35	19,733.09	19,837.37	393,623.28	540,879.83
2,184.26	2,072.79	9,710.52	9,520.24	172,053.69	243,626.73
1,599.87	939.86	5,337.33	1,405.67	47,763.67	40,012.67
			804.18	51,541.49	56,540.06
3,784.13	3,012.65	15,047.85	11,730.09	271,358.85	340,179.46
521.00	645.00	3,185.00	3,579.33	22,821.00	32,167.33
	81.49	560.76	1,167.76	2,722.76	10,641.28
521.00	726.49	3,745.76	4,747.09	25,543.76	42,808.61
565.74	677.21	939.48	1,129.76	29,178.99	74,963.12
				44,192.20	52,477.61
			2,230.43	23,349.48	30,451.03
565.74	677.21	939.48	3,360.19	96,720.67	157,891.76
4,870.87	4,416.35	19,733.09	19,837.37	393,623.28	540,879.83
90.0	76.0	87.0	58.7	72.4	69.3

STATEMENT

Comparative Balance Sheets of Electric Departments

RIDEAU SYSTEM

Municipality	Carlton Place		Kempt- ville	Lanark	Perth
Population	3,430		1,184	625	3,630
	1920	1921	1921	1921	1920
	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
ASSETS					
Lands and Buildings	5,652.12	5,688.32			
Sub-Station Equipment	2,313.52	2,471.63			3,686.42
Distribution System, Overhead ..	25,514.77	26,387.48	15,319.47	4,578.52	30,425.22
Dist. System, Underground					
Line Transformers	8,993.26	9,488.95	2,342.47	555.01	13,623.77
Meters	10,097.89	10,463.95	2,907.48	797.58	11,724.60
Street Light Equipment, Regular ..	601.76	683.31	907.68	633.84	1,525.56
Street Light Equip., Ornamental ..					
Miscellaneous Construction Exp ..	8,570.32	8,582.10	3,047.38	260.38	2,388.19
Steam or Hydraulic Plant					32,470.76
Old Plant					2,674.25
Total Plant	61,743.64	63,765.74	24,524.48	6,825.33	98,518.77
Bank and Cash Balance	3,009.96	678.53	207.20	2,086.23	
Securities and Investments					
Accounts Receivable	9,606.08	1,298.78			5,160.13
Inventories	6,852.22	4,877.89	565.03	163.32	13,021.49
Sinking Fund on Local Debentures ..					
Equity in Hydro System					
Equity in Rural Lines					
Other Assets			203.75	65.04	
Total Assets	81,211.90	70,620.94	25,500.46	9,139.92	116,700.39
Deficit		922.74			
Total	81,211.90	71,543.68	25,500.46	9,139.92	116,700.39
LIABILITIES					
Debenture Balance	45,762.64	38,389.25	24,683.78	7,561.47	47,026.80
Accounts Payable	19,655.60	25,686.68	500.46	1,487.30	18,921.38
Bank Overdraft	10,884.72				41,537.03
Other Liabilities					
Total Liabilities	76,302.96	64,075.93	25,184.24	9,048.77	107,485.21
RESERVES					
Reserve for Depreciation	3,626.00	5,857.00			6,737.00
Reserve for Equity in H.E.P.C. Sys ..					
Res. for Equity in H.E.P.C. (Rural) ..					
Total Reserves	3,626.00	5,857.00			6,737.00
SURPLUS					
Debentures Paid	1,137.36	1,610.75	316.22		1,973.20
Local Sinking Fund					
Additional Operating Surplus	145.58			91.15	504.98
Total Surplus	1,282.94	1,610.75	316.22	91.15	2,478.18
Total Liabilities—Res. and Surplus ..	81,211.90	71,543.68	25,500.46	9,139.92	116,700.39
Percentage of Net Debt to Total Assets	93.9	94.9	98.8	99.1	92.1

“A”—Continued.

of Hydro Municipalities as at December 31st, 1921

					THUNDER BAY SYSTEM	
Perth	Smith's Falls 6,665		RIDEAU SYSTEM SUMMARY		Port Arthur 15,201	
1921	1920	1921	1920	1921	1920	1921
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
6,600.50	20,788.10	20,688.10	26,440.22	32,976.92	34,553.94	34,553.94
3,492.82	4,835.02	4,836.17	10,834.96	10,800.62	3,021.38	3,021.38
31,271.22	59,322.50	64,753.49	115,262.49	126,990.71	222,376.32	247,721.12
13,733.26	13,988.19	13,990.74	36,605.22	37,767.96	19,657.95	23,868.11
13,442.33	19,195.00	20,631.06	41,017.49	45,334.92	50,310.15	51,951.00
2,145.21	1,801.89	1,801.89	3,929.21	5,264.25	29,180.76	29,284.75
4,659.56	8,203.50	7,903.05	19,162.01	21,405.09	11,179.53	11,728.98
25,845.26	38,251.49	38,251.49	70,722.25	64,096.75	380,274.19	348,096.93
2,674.25	21,766.99	21,508.20	24,441.24	24,182.45		
103,864.41	188,152.68	194,364.19	348,415.09	368,819.67	712,978.90	750,226.21
10,580.60	984.37	4,046.70	3,994.33	17,392.06	1,774.68	18,136.21
			16,757.61		31,005.77	46,315.33
7,440.97	1,991.40	5,448.49	31,776.85	14,416.60	90,477.99	78,065.76
10,685.72	11,903.14	10,494.33		26,057.94	50,944.76	32,954.34
					136,998.63	129,166.19
					20,446.98	21,264.86
					826.63	827.50
132,571.70	203,031.59	214,353.71	400,943.88	426,686.27	1,045,454.34	1,076,956.40
	20,501.30	24,284.18	20,501.30	25,206.92		
132,571.70	223,532.89	238,637.89	421,445.18	451,893.19	1,045,454.34	1,076,956.40
105,688.61	171,588.32	165,797.97	264,377.76	317,437.30	520,149.52	460,447.06
7,919.56	25,415.29	24,362.29	63,992.27	59,455.83	11,622.96	26,286.04
		10,000.00	52,421.75	10,000.00	3,688.97	13,518.39
113,608.17	197,003.61	200,160.26	380,791.78	386,893.13	535,461.45	500,251.49
9,462.00	13,392.60	19,550.60	23,755.60	34,869.60	48,219.64	62,342.55
					20,446.98	21,264.86
9,462.00	13,392.60	19,550.60	23,755.60	34,869.60	68,666.62	83,607.41
2,711.39	13,136.68	18,927.03	16,247.24	23,249.17	110,833.02	165,652.94
6,790.14			650.56	6,881.29	136,998.63	129,166.19
9,501.53	13,136.68	18,927.03	16,897.80	30,130.46	193,494.62	198,278.37
132,571.70	223,532.89	238,637.89	421,445.18	451,893.19	441,326.27	493,097.50
85.7	97.0	93.5	95.0	90.7	51.2	46.4

STATEMENT

Comparative Balance Sheets of Electric Departments

OTTAWA SYSTEM		TRENT SYSTEM		
Municipality	Ottawa	Bloomfield		
Population	110,708	550		
	1920	1921	1920	1921
	\$ c.	\$ c.	\$ c.	\$ c.
ASSETS				
Lands and Buildings.....	113,993.73	164,520.01		
Sub-Station Equipment.....	128,283.36	162,551.81	6,384.16	6,394.46
Distribution System, Overhead....	388,321.94	419,524.36		
Dist. System, Underground.....	84,704.84	92,237.62		
Line Transformers.....	142,143.24	162,259.06	1,119.31	1,119.31
Meters.....	141,670.27	152,461.52	1,248.28	1,276.91
Street Light Equipment, Regular..	60,802.44	60,963.86	426.15	556.88
Street Light Equip., Ornamental..	29,975.55	29,975.55		
Miscellaneous Construction Exp..	32,247.35	33,814.85	1,403.42	1,403.42
Steam or Hydraulic Plant.....				
Old Plant.....				
Total Plant.....	1,122,142.72	1,278,308.64	10,581.32	10,750.98
Bank and Cash Balance.....	1,686.79	1,952.25	1,235.31	1,002.40
Securities and Investments.....	50,000.00	50,000.00		
Accounts Receivable.....	33,845.93	41,001.81	88.44	23.20
Inventories.....	51,682.97	31,001.74		20.00
Sinking Fund on Local Debentures	205,404.03	231,508.95		
Equity in Hydro System.....				
Equity in Rural Lines.....				
Other Assets.....				
Total Assets.....	1,464,762.44	1,633,773.39	11,905.07	11,796.58
Deficit.....			240.82	1,332.84
Total.....	1,464,762.44	1,633,773.39	12,145.89	13,129.42
LIABILITIES				
Debenture Balance.....	700,000.00	700,000.00	10,991.55	10,790.86
Accounts Payable.....	33,162.25	44,613.33	578.89	1,176.42
Bank Overdraft.....	43,571.66	128,410.67		
Other Liabilities.....	7,944.30	10,801.50		
Total Liabilities.....	784,678.21	883,825.50	11,570.44	11,967.28
RESERVES				
Reserve for Depreciation.....	374,981.09	403,684.87	367.00	753.00
Reserve for Equity in H.E.P.C. Sys				
Res. for Equity in H.E.P.C. (Rural)				
Total Reserves.....	374,981.09	403,684.87	367.00	753.00
SURPLUS				
Debentures Paid.....			208.45	409.14
Local Sinking Fund.....	205,404.03	231,508.95		
Additional Operating Surplus....	99,699.11	114,754.07		
Total Surplus.....	305,103.14	346,263.02	208.45	409.14
Total Liabilities—Res. and Surplus	1,464,762.44	1,633,773.39	12,145.89	13,129.42
Percentage of Net Debt to Total Assets.....	53.6	54.1	97.2	101.2

“ A ”—Continued
of Hydro Municipalities as at December 31st, 1921

Havelock	Kingston		Lakefield		Marmora	Norwood
1,266	22,368		1,146		853	711
1921	1920	1921	1920	1921	1921	1921
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
572.90	38,277.09	38,277.09				457.53
17,375.82	101,969.19	105,958.85	14,934.17	16,611.30	11,281.96	22,067.33
	44,747.10	44,747.10				
1,634.40	29,680.89	31,600.65	1,169.42	1,879.61	1,046.83	2,701.60
3,998.04	54,855.99	59,722.55	2,817.40	3,503.40	2,070.15	2,814.93
1,753.49	18,699.67	17,001.27	1,064.53	1,367.95	891.95	1,802.05
	22,669.64	22,669.64				
4,226.31	43,557.92	42,527.08	3,204.94	3,232.55	1,600.91	3,187.42
	77,393.70	76,653.59				
2,515.45	22,298.11	25,048.11	5,500.00	3,744.25	763.77	1,443.21
32,076.41	454,149.30	464,205.93	28,690.46	30,339.06	17,655.57	34,474.04
119.14	4,374.03	22,722.16	5,149.38	2,013.37		735.76
287.41	19,436.31	10,696.40	727.53	3,312.40	2,843.42	633.45
	15,251.80	10,675.74		40.95		
	32,458.19	37,753.05				
32,482.96	525,669.63	546,053.28	34,567.37	35,705.78	20,498.99	35,843.25
32,482.96	525,669.63	546,053.28	34,567.37	35,705.78	20,498.99	35,843.25
28,114.37	273,159.67	268,276.10	33,500.00	33,112.16	17,092.20	32,681.32
3,270.48			366.02	1,217.09	67.72	835.23
					1,195.94	105.00
31,384.85	273,159.67	268,276.10	33,866.02	34,329.25	18,355.86	33,621.55
	18,898.36	24,731.67		901.00		
	18,898.36	24,731.67		901.00		
785.63	38,740.32	43,623.89		387.84	573.91	418.68
	32,458.19	37,753.05				
312.48	162,413.09	171,668.57	701.35	87.69	1,569.22	1,803.02
1,098.11	233,611.60	253,045.51	701.35	475.53	2,143.13	2,221.70
32,482.96	525,669.63	546,053.28	34,567.37	35,705.78	20,498.99	35,843.25
96.5	51.9	49.1	98.0	96.0	89.4	78.2

STATEMENT

Comparative Balance Sheets of Electric Departments

TRENT SYSTEM—Continued

Municipality Population	Omamee 557		Peterboro 21,790		Picton 3,189
	1920	1921	1920	1921	1920
	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
ASSETS					
Lands and Buildings.....			8,241.19	8,899.33	1,292.00
Sub-Station Equipment.....	360.32	360.32	8,849.40	9,045.24	432.90
Distribution System, Overhead...	8,575.83	8,722.92	96,486.77	109,428.36	9,121.40
Dist. System, Underground.....					
Line Transformers.....	644.50	2,347.49	50,217.13	58,734.81	3,698.99
Meters.....	1,457.47	1,555.13	50,445.29	54,878.05	4,848.14
Street Light Equipment, Regular...	368.17	368.17	3,374.46	3,613.80	998.00
Street Light Equip., Ornamental...			26,107.68	26,107.68	
Miscellaneous Construction Exp...	1,426.74	1,426.74	57,669.99	58,153.88	2,633.00
Steam or Hydraulic Plant.....					
Old Plant.....			17,435.71	17,435.71	3,739.98
Total Plant.....	12,833.03	14,780.77	318,827.62	346,196.86	26,763.51
Bank and Cash Balance.....	2.95	156.37			3,626.45
Securities and Investments.....					
Accounts Receivable.....	150.68	564.09	8,829.41	18,203.54	6,045.86
Inventories.....			7,761.21	12,953.23	8,227.13
Sinking Fund on Local Debentures			24,875.71	29,793.37	
Equity in Hydro System.....					
Equity in Rural Lines.....					
Other Assets.....					
Total Assets.....	12,986.66	15,501.23	360,293.95	407,147.00	44,552.95
Deficit.....	651.84				
Total.....	13,638.50	15,501.23	360,293.95	407,147.00	44,552.95
LIABILITIES					
Debenture Balance.....	11,139.49	10,761.63	220,000.00	220,000.00	
Accounts Payable.....	763.50	1,967.63	13,193.65	9,807.23	2,832.58
Bank Overdraft.....			10,627.22	50,523.47	
Other Liabilities.....				7,097.13	
Total Liabilities.....	11,902.99	12,729.26	250,356.71	287,427.83	2,832.58
RESERVES					
Reserve for Depreciation.....	875.00	1,404.00	43,195.00	44,467.51	1,113.00
Reserve for Equity in H.E.P.C. Sys					
Res. for Equity in H.E.P.C. (Rural)					
Total Reserves.....	875.00	1,404.00	43,195.00	44,467.51	1,113.00
SURPLUS					
Debentures Paid.....	860.51	1,238.37		29,793.37	1,696.38
Local Sinking Fund.....			24,875.71	45,458.29	
Additional Operating Surplus.....		129.60	41,866.53		38,910.99
Total Surplus.....	860.51	1,367.97	66,742.24	75,251.66	40,607.37
Total Liabilities—Res. and Surplus	13,638.50	15,501.23	360,293.95	407,147.00	44,552.95
Percentage of Net Debt to Total Assets.....	91.7	82.0	69.5	70.6	6.4

"A"—Continued

of Hydro Municipalities as at December 31st, 1921

Picton	Wellington 850		East Whitby Township		West Whitby Township	
1921	1920	1921	1920	1921	1920	1921
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
1,405.07	200.00	200.00	.....	.....	.....	.....
989.69	.....	.....	.....	.....	.....	.....
13,897.21	9,222.01	10,251.97	704.50	704.50	9,207.42	9,207.42
.....
4,000.61	1,991.58	2,424.44	2,459.31	2,459.31	2,329.96	2,329.96
6,761.15	1,723.01	2,318.50	787.22	787.22	1,207.75	1,207.75
1,162.90	796.02	796.02	.....	.....	721.76	721.79
.....
2,738.50	717.28	717.28	48.97	48.97	33.11	33.11
.....
3,739.98	2,477.92	2,477.92	.....	.....	.....	.....
.....
34,695.11	17,127.82	19,186.13	4,000.00	4,000.00	13,500.00	13,500.00
.....
288.46	372.38	.....	.....	.....	.....	.....
5,000.00	.....	.....	.....	.....	.....	.....
11,941.92	232.29	15.18	.....	.....	.....	.....
3,599.16	.....	136.99	.....	.....	.....	.....
.....
.....
.....
58,122.65	17,732.49	19,338.30	4,000.00	4,000.00	13,500.00	13,500.00
.....	427.43	1,150.23	.....	.....	.....	.....
.....
58,122.65	18,159.92	20,488.53	4,000.00	4,000.00	13,500.00	13,500.00
.....
.....
3,732.51	9,760.91	16,629.59	3,775.96	3,653.76	12,744.00	12,331.65
74.59	7,604.92	1,773.75	.....	.....	.....	.....
.....	.....	544.78	.....	.....	.....	.....
.....
.....
3,807.10	17,365.83	18,948.12	3,775.96	3,653.76	12,744.00	12,331.65
.....
.....	555.00	1,170.00	.....	.....	.....	.....
.....
.....
.....	555.00	1,170.00	.....	.....	.....	.....
.....
1,997.81	239.09	370.41	224.04	346.24	756.00	1,168.35
.....
52,317.74	.....	.....	.....	.....	.....	.....
.....
54,315.55	239.09	370.41	224.04	346.24	756.00	1,168.35
.....
58,122.65	18,159.92	20,488.53	4,000.00	4,000.00	13,500.00	13,500.00
.....
.....
6.5	97.6	97.9	94.4	91.3	94.4	91.2

STATEMENT "A"—Concluded

Comparative Balance Sheets of Electric Departments of Hydro Municipalities as at December 31st, 1921

TRENT SYSTEM—Continued		ALL SYSTEMS			
Municipality Population	TRENT SYSTEM SUMMARY		GRAND SUMMARY		
	1920	1921	1920	1921	
ASSETS	\$ c.	\$ c.	\$ c.	\$ c.	
Lands and Buildings.....	48,010.28	48,781.49	2,175,568.24	3,230,985.63	
Sub-Station Equipment.....	9,641.72	11,425.68	3,231,050.80	5,403,689.90	
Distribution System, Overhead....	256,605.45	321,990.18	8,579,881.49	8,397,361.48	
Dist. System, Underground.....	44,747.10	44,747.10	1,313,369.29	1,401,135.97	
Line Transformers.....	93,311.09	107,489.75	2,560,581.59	3,077,649.83	
Meters.....	119,390.55	138,898.81	3,053,135.20	3,552,076.79	
Street Light Equipment, Regular..	26,448.76	29,214.45	1,269,006.98	1,335,997.13	
Street Light Equip., Ornamental..	48,777.32	48,777.32	557,678.13	610,586.70	
Miscellaneous Construction Exp..	110,695.37	119,214.09	2,697,636.12	3,030,134.16	
Steam or Hydraulic Plant.....	77,393.70	76,653.59	757,194.47	704,848.46	
Old Plant.....	51,451.72	57,168.40	864,298.39	912,388.55	
Total Plant.....	886,473.06	1,004,360.86	27,059,400.70	31,656,854.60	
Bank and Cash Balance.....	14,760.50	29,635.66	943,858.12	900,842.34	
Securities and Investments.....		5,000.00	341,855.88	477,678.69	
Accounts Receivable.....	35,278.23	48,521.01	2,022,538.88	2,155,788.62	
Inventories.....	31,362.43	27,426.07	1,400,671.89	1,504,596.28	
Sinking Fund on Local Debentures	57,333.90	67,546.42	2,244,004.34	2,541,718.35	
Equity in Hydro System.....			531,299.63	755,846.16	
Equity in Rural Lines.....			46,284.43	39,724.35	
Other Assets.....			25,447.07	78,929.84	
Total Assets.....	1,025,208.12	1,182,490.02	34,615,360.94	40,111,979.23	
Deficit.....	1,320.09	2,483.07	182,946.17	258,486.41	
Total.....	1,026,528.21	1,184,973.09	34,798,307.11	40,370,465.64	
LIABILITIES					
Debenture Balance.....	575,071.58	641,190.74	19,268,072.04	21,619,220.99	
Accounts Payable.....	25,339.56	20,190.14	1,840,137.54	1,887,567.93	
Bank Overdraft.....	10,627.22	52,264.19	514,671.99	989,099.98	
Other Liabilities.....	6,535.84	7,202.13	642,293.65	938,368.84	
Total Liabilities.....	617,574.20	720,847.20	22,265,175.22	25,434,257.74	
RESERVES					
Reserve for Depreciation.....	65,003.36	73,427.18	4,788,645.03	5,491,858.93	
Reserve for Equity in H.E.P.C. Sys			531,299.63	759,415.73	
Res. for Equity in H.E.P.C.(Rural)			46,284.43	40,833.32	
Total Reserves.....	65,003.36	73,427.18	5,366,229.09	6,292,107.98	
SURPLUS					
Debentures Paid.....	42,724.79	49,805.68	1,440,156.52	1,860,079.53	
Local Sinking Fund.....	57,333.90	67,546.42	2,246,474.47	2,541,718.35	
Additional Operating Surplus.....	243,891.96	273,346.61	3,480,271.81	4,242,302.04	
Total Surplus.....	343,950.65	390,698.71	7,166,902.80	8,644,099.92	
Total Liabilities—Res. and Surplus	1,026,528.21	1,184,973.09	34,798,307.11	40,370,465.64	
Percentage of Net Debt to Total Assets.....	60.3	61.0	65.3	63.3	

STATEMENT " B "

Report showing Operation of Municipalities for Period Ending
December 31st, 1921.

STATEMENT

Report Showing Operation of Municipalities

NIAGARA

Municipality	Population	Power Purchased	Operation and Maintenance	Debenture Charges and Interest	Total Operation	Revenue	Gross Surplus
		\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Acton.....	1,594	7,219.94	3,073.06	491.90	10,874.90	13,062.32	2,277.42
Ailsa Craig....	535	5,744.46	264.71	397.73	6,406.90	8,298.26	1,891.36
Ancaster Twp..	.....	2,719.89	2,142.68	1,649.87	6,512.44	9,196.12	2,683.68
Aylmer.....	2,241	8,262.56	3,732.82	2,284.44	14,279.82	20,360.30	6,080.48
Ayr.....	796	3,304.43	831.34	1,025.16	5,160.93	6,898.08	1,737.15
Baden.....	.....	5,974.22	967.02	116.75	7,057.99	8,003.55	945.56
Beachville.....	.....	8,517.36	758.62	124.21	9,400.19	9,893.36	493.17
Blenheim.....	1,528	7,343.51	3,031.07	1,069.93	11,444.51	14,065.66	2,621.15
Bolton.....	656	5,945.83	1,613.00	1,387.13	8,945.96	9,081.39	135.43
Bothwell.....	630	7,031.51	887.00	1,208.32	9,126.83	11,635.02	2,508.19
Brampton.....	4,406	21,166.54	5,694.03	3,268.04	30,128.61	35,576.53	5,447.92
Brantford.....	32,786	92,629.23	44,046.48	22,499.48	159,175.19	175,465.27	16,290.08
Brantford Twp.	.....	5,957.15	3,795.73	4,366.51	14,119.39	16,495.77	2,376.38
Brigden.....	.....	4,925.99	762.97	915.50	6,604.46	7,543.77	939.31
Burford.....	.....	3,386.56	502.77	496.42	4,385.75	5,391.51	1,005.76
Burgessville....	.....	1,232.15	105.38	277.63	1,615.16	2,246.43	631.27
Caledonia.....	1,308	2,180.89	686.68	346.41	3,213.98	4,728.80	1,514.82
Chatham.....	15,525	67,580.08	47,560.78	21,050.52	136,191.38	167,429.96	31,238.58
Chippawa.....	1,099	1,481.67	1,262.62	954.68	3,698.97	4,808.07	1,109.10
Clinton.....	1,838	7,224.64	2,304.93	3,016.69	12,546.26	16,198.87	3,652.61
Comber.....	.....	5,312.48	662.08	824.38	6,798.94	8,734.62	1,935.68
Dashwood.....	.....	3,126.68	305.90	217.21	3,649.79	3,439.43	.....
Delaware.....	.....	857.64	141.03	233.03	1,231.70	1,706.26	474.56
Dereham Twp..	.....	3,096.88	1,364.10	3,413.75	7,874.73	7,785.76	.....
Dorchester.....	.....	1,247.24	567.26	245.11	2,059.61	3,022.54	962.93
Drayton.....	602	3,400.14	341.07	674.75	4,415.96	5,566.82	1,150.86
Dresden.....	1,393	6,237.28	2,298.27	1,252.35	9,787.90	13,688.46	3,900.56
Drumbo.....	.....	1,080.01	210.08	257.84	1,547.93	2,385.06	837.13
Dublin.....	.....	2,169.97	445.05	593.37	3,208.39	2,938.25	.....
Dundas.....	5,054	20,937.71	10,827.99	3,394.82	35,160.52	42,966.07	7,805.55
Dunnville.....	3,569	10,918.66	4,020.11	5,100.01	20,038.78	21,806.74	1,767.96
Dutton.....	870	4,278.18	1,317.74	445.43	6,041.35	7,213.64	1,172.29
Elmira.....	2,400	10,187.41	3,441.57	1,416.58	15,045.56	19,179.92	4,134.36
Elora.....	1,199	7,947.21	2,817.81	974.55	11,739.57	12,681.28	941.71
Embro.....	463	3,276.11	337.84	723.58	4,337.53	5,523.46	1,185.93
Etobicoke Twp.	.....	8,382.37	4,978.13	7,526.89	20,887.39	33,005.12	12,117.73
Exeter.....	1,458	8,531.44	2,056.32	1,199.15	11,786.91	14,487.44	2,700.53
Fergus.....	1,815	7,619.95	3,455.64	1,720.92	12,796.51	14,134.38	1,337.87
Forest.....	1,386	6,779.33	3,333.50	2,737.43	12,850.26	15,998.46	3,148.20
Galt.....	13,092	64,467.06	23,967.85	16,506.46	104,941.37	131,536.15	26,594.78
Georgetown....	2,554	21,458.22	4,027.10	1,096.73	26,582.05	28,805.39	2,223.34
Glencoe.....	779	5,084.48	828.49	2,629.70	8,542.67	10,909.43	2,366.76
Goderich.....	4,289	21,554.59	8,682.71	4,603.54	34,840.84	39,167.77	4,326.93
Grantham Twp.	.....	1,405.83	1,406.53	3,073.36	5,885.72	7,852.83	1,967.11
Granton.....	.....	2,242.62	192.42	271.59	2,706.63	3,821.17	1,114.54

“ B ”

for Period Ending December 31st, 1921

SYSTEM

Gross Deficit	Depre- ciation	Net Surplus	Net Deficit	Number of Consumers					Per Cent of Con- sumers to Popu- lation	Horse- power taken in Dec., 1921
				Dom. Lt.	Com'l Lt.	Po- wer	Rural	Total		
\$ c.	\$ c.	\$ c.	\$ c.							
.....	916.00	1,361.42	.....	301	69	14	.....	384	24.1	276.9
.....	479.00	1,412.36	.....	95	32	3	1	131	24.5	131.3
.....	1,146.00	1,537.68	.....	422	34	4	.....	460	.....	*
.....	1,087.00	4,993.48	.....	416	108	10	.....	534	23.8	215.8
.....	540.00	1,197.15	.....	115	42	5	.....	162	20.	103.2
.....	438.00	507.56	.....	78	24	6	.....	108	.....	252.9
.....	543.00	.....	49.83	71	23	3	.....	97	.....	237.2
.....	1,097.00	1,524.15	.....	359	93	11	.....	463	30.3	191.5
.....	938.00	.....	802.57	118	38	10	15	181	27.5	130.6
.....	308.00	2,200.19	.....	123	57	13	.....	193	30.6	143.1
.....	4,156.00	1,291.92	.....	964	189	35	13	1,201	27.2	1,104.2
.....	15,444.35	845.73	.....	4,458	530	80	.....	5,068	15.4	5,690.3
.....	1,999.00	377.38	.....	515	32	4	22	573	.....	*
.....	391.00	548.31	.....	71	38	3	.....	112	.....	46.6
.....	350.00	655.76	.....	127	37	2	4	170	.....	50.2
.....	182.00	449.27	.....	44	12	1	.....	57	.....	16.6
.....	487.00	1,027.82	.....	76	55	7	.....	138	.....	93.1
.....	10,050.00	21,188.58	.....	3,442	636	130	.....	4,208	27.1	2,748.0
.....	632.00	477.10	.....	144	26	1	.....	171	15.5	81.2
.....	1,490.00	2,162.61	.....	361	130	11	.....	502	27.3	197.0
.....	368.00	1,567.68	.....	68	40	2	.....	110	.....	89.4
210.36	172.00	.....	382.36	43	22	2	.....	67	.....	50.2
.....	141.00	333.56	.....	42	12	.....	.....	54	.....	13.4
88.97	2,195.00	.....	2,283.97	.....	.....	.....	174	174	.....	59.6
.....	303.00	656.93	.....	97	15	3	.....	115	.....	24.5
.....	422.00	728.86	.....	106	42	2	.....	150	24.9	53.6
.....	796.00	3,104.56	.....	256	107	12	.....	375	26.9	118.2
.....	203.00	634.13	.....	54	24	1	.....	79	.....	29.5
270.14	253.00	.....	523.14	19	19	3	2	43	.....	13.0
.....	4,400.00	3,405.55	.....	848	170	50	41	1,109	21.9	1,169.0
.....	2,641.00	.....	873.04	242	142	17	.....	401	11.2	343.0
.....	530.00	642.29	.....	159	75	3	2	239	27.4	111.2
.....	1,417.00	2,717.36	.....	348	98	22	.....	468	19.5	289.1
.....	937.00	4.71	.....	205	67	3	1	276	23.	207.6
.....	408.00	777.93	.....	72	36	3	1	112	24.2	32.8
.....	5,380.00	6,737.73	.....	1,515	83	14	.....	1,612	.....	494.6
.....	959.00	1,741.53	.....	277	90	7	1	375	25.7	187.7
.....	1,285.00	52.87	.....	310	100	15	.....	425	23.4	241.2
.....	1,171.00	1,977.20	.....	337	106	15	.....	458	33.	133.4
.....	13,282.16	13,312.62	.....	2,962	417	107	.....	3,486	26.6	3,526.8
.....	2,179.00	44.34	.....	419	100	31	.....	550	21.5	614.0
.....	806.00	1,560.76	.....	143	62	3	.....	208	26.7	78.4
.....	4,260.00	66.93	.....	816	182	17	20	1,035	24.1	466.5
.....	475.40	1,491.71	.....	.....	.....	.....	209	209	.....	* 41.1
.....	217.00	897.54	.....	63	22	2	.....	87	.....	19.8

STATEMENT

Report Showing Operation of Municipalities

NIAGARA

Municipality	Population	Power Purchased	Operation and Maintenance	Debenture Charges and Interest	Total Operation	Revenue	Gross Surplus
		\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Guelph.....	17,922	84,268.29	34,233.26	8,478.38	126,979.93	144,771.70	17,791.77
Hagersville....	1,139	11,754.85	2,152.96	413.74	14,321.55	18,044.35	3,722.80
Hamilton.....	114,766	304,139.38	160,206.24	83,014.98	547,360.60	608,687.15	61,326.55
Harriston.....	1,326	8,314.86	2,040.60	1,393.89	11,749.35	15,152.88	3,403.53
Hensall.....	687	3,079.13	801.59	840.77	4,721.49	5,562.33	840.84
Hespeler.....	3,059	9,841.93	6,102.48	2,183.43	18,127.84	18,590.92	463.08
Highgate.....	403	2,080.99	422.71	325.26	2,828.96	3,931.97	1,103.01
Ingersoll.....	5,422	25,721.93	11,778.26	3,479.14	40,979.33	46,033.30	5,053.97
Kitchener.....	23,027	137,226.38	47,036.30	17,083.25	201,345.93	224,332.76	22,986.83
Lambeth.....	.....	1,341.93	368.44	309.22	2,019.59	2,856.62	837.03
Listowel.....	2,571	15,222.99	5,879.93	3,779.12	24,882.04	29,374.14	4,492.10
London.....	59,281	293,032.07	163,766.64	73,685.48	530,484.19	589,889.62	59,405.43
Louth Twp.....	.....	.....	597.53	494.41	1,091.94	728.10	.....
Lucan.....	614	6,424.35	1,524.76	704.10	8,653.21	11,763.01	3,109.80
Lynden.....	.....	4,362.89	197.82	342.76	4,903.47	5,700.35	796.98
Markham.....	941	3,139.96	1,667.73	1,296.37	6,104.06	9,249.11	3,145.05
Merriton.....	2,480	3,052.27	5,568.15	746.89	9,367.31	12,653.09	3,285.78
Milton.....	1,800	18,846.46	2,586.52	1,386.63	22,819.61	26,714.19	3,894.58
Milverton.....	1,029	8,748.51	1,306.87	601.01	10,656.39	13,002.77	2,346.38
Mimico.....	4,187	9,185.53	6,256.79	2,092.73	17,535.05	21,087.64	3,552.59
Mitchell.....	1,686	6,060.55	2,736.61	1,759.54	10,556.70	15,996.18	5,439.48
Moorefield.....	.....	1,868.94	196.74	383.48	2,449.16	2,937.93	488.77
Mount Brydges.....	.....	1,863.09	316.20	247.55	2,426.84	3,224.15	797.31
Newbury.....	283	863.59	85.72	655.07	1,604.38	1,800.72	196.34
New Hamburg.....	1,401	7,644.94	3,151.19	1,119.52	11,915.65	13,478.44	1,562.79
New Toronto...	2,850	68,979.18	8,477.68	169.43	77,626.29	78,841.50	1,215.21
Niagara-on-the Lake.....	1,863	3,407.88	3,831.33	1,518.51	8,757.72	14,482.64	5,724.92
Niagara Falls...	14,805	50,073.13	42,974.33	17,714.39	110,761.85	127,634.38	16,872.53
Norwich.....	1,237	8,950.13	8,370.04	643.70	17,963.87	22,514.67	4,550.80
Oil Springs.....	443	5,245.21	867.95	940.99	7,054.15	9,040.83	1,986.68
Otterville.....	.....	1,661.26	353.01	303.44	2,317.71	3,907.78	1,590.07
Palmerston.....	1,850	6,845.88	1,833.93	2,018.00	10,697.81	17,505.95	6,808.14
Paris.....	4,346	15,186.57	6,653.54	6,396.05	28,236.16	35,261.23	7,025.07
Parkhill.....	1,194	3,735.92	615.79	1,472.10	5,823.81	8,969.59	3,145.78
Petrolia.....	2,964	18,139.05	7,549.84	3,768.36	29,457.25	39,856.98	10,399.73
Plattsville.....	.....	2,394.50	350.39	316.87	3,061.76	2,633.73	.....
Port Colborne...	2,956	6,724.89	4,736.31	3,592.87	15,054.07	20,281.45	5,227.38
Port Credit....	1,044	3,348.13	1,453.02	479.69	5,280.84	7,993.97	2,713.13
Port Dalhousie..	1,565	2,908.23	3,338.29	1,139.88	7,386.40	8,649.46	1,263.06
Port Dover.....	.....	.....	.....	.....	.....	.....	.....
Port Stanley...	797	8,105.86	3,833.37	1,039.71	12,978.94	15,240.58	2,261.64
Preston.....	5,355	35,661.24	15,978.96	7,352.15	58,992.35	58,916.60	.....
Princeton.....	.....	1,543.22	203.93	249.98	1,997.13	2,016.78	19.65
Queenston.....	.....	413.07	238.65	172.20	823.92	1,398.55	574.63
Ridgetown.....	2,256	8,006.37	3,022.69	1,374.44	12,403.50	17,338.96	4,935.46

"B"—Continued

for Period Ending December 31st, 1921

SYSTEM—Continued

Gross Deficit	Depre- ciation	Net Surplus	Net Deficit	Number of Consumers					Per Cent of Con- sumers to Popu- lation	Horse- power taken in Dec., 1921
				Dom. Lt.	Com'l Lt.	Po- wer	Rural	Total		
\$ c.	\$ c.	\$ c.	\$ c.							
.....	12,466.00	5,325.77	.....	3,292	579	90	90	4,051	22.6	4,572.3
.....	708.00	3,014.80	.....	179	83	10	.....	272	23.9	429.1
.....	61,173.28	153.27	.....	19822	2,021	629	767	23,239	20.2	19,705.0
.....	783.00	2,620.53	.....	221	78	7	.....	306	23.1	204.8
.....	524.00	316.84	.....	121	44	6	.....	171	24.9	70.3
.....	2,088.00	.....	1,624.92	480	95	17	.....	592	19.3	449.0
.....	289.00	814.01	.....	61	31	6	.....	98	24.3	29.0
.....	3,995.00	1,058.97	.....	1,016	225	54	10	1,305	24.1	1,309.6
.....	19,567.00	3,419.83	.....	3,740	615	182	22	4,559	19.8	7,305.6
.....	216.00	621.03	.....	86	22	1	.....	109	.....	28.0
.....	2,043.00	2,449.10	.....	458	142	18	.....	618	24.	482.5
363.84	58,898.95	506.48	.....	13117	1,785	466	.....	15,368	25.9	14,799.0
.....	70.00	.....	433.84	51	.....	.....	.....	51	.....	.....
.....	614.00	2,495.80	.....	135	40	10	1	186	30.3	199.8
.....	228.00	568.88	.....	57	18	1	.....	76	.....	104.5
.....	755.00	2,390.05	.....	169	42	6	.....	217	23.1	79.6
.....	948.00	2,337.78	.....	603	58	5	.....	666	26.8	219.8
.....	1,496.00	2,398.58	.....	315	82	20	.....	417	23.2	883.2
.....	628.00	1,718.38	.....	152	64	5	.....	221	21.5	348.5
.....	2,461.00	1,091.59	.....	927	66	9	.....	1,002	23.9	627.0
.....	2,069.00	3,370.48	.....	330	104	21	.....	455	27.0	233.2
.....	187.00	301.77	.....	26	20	2	.....	48	.....	13.4
.....	222.00	575.31	.....	77	20	1	.....	98	.....	29.2
.....	.....	196.34	.....	40	12	1	.....	53	18.7	26.8
.....	1,306.00	256.79	.....	231	63	11	.....	305	21.8	235.2
.....	2,354.00	.....	1,138.79	631	73	14	.....	718	25.2	1,425.0
.....	708.00	5,016.92	.....	306	74	6	4	390	20.9	158.0
.....	12,539.50	4,333.03	.....	3,048	528	90	.....	3,666	24.8	4,241.0
.....	2,970.00	1,580.80	.....	305	85	7	168	565	.....	343.0
.....	628.00	1,358.68	.....	42	17	33	.....	92	20.8	194.7
.....	286.00	1,304.07	.....	84	17	4	.....	105	.....	46.6
.....	1,015.00	5,793.14	.....	255	80	6	.....	341	18.4	205.0
.....	4,178.00	2,847.07	.....	875	188	18	1	1,082	24.9	830.9
.....	670.00	2,475.78	.....	146	58	3	.....	207	17.3	76.4
.....	2,808.00	7,591.73	.....	503	187	61	.....	751	25.3	701.5
428.03	244.00	.....	672.03	77	20	2	.....	99	.....	32.1
.....	1,892.00	3,335.38	.....	579	151	17	.....	747	25.3	544.0
.....	765.94	1,947.19	.....	221	42	6	3	272	26.0	146.7
.....	649.00	614.06	.....	373	28	7	50	458	26.1	130.6
.....	1,157.00	1,104.64	.....	481	111	19	.....	611	.....	111.9
75.75	5,452.00	.....	5,527.75	1,074	196	42	12	1,324	24.7	1,793.0
.....	144.00	.....	124.35	55	10	.....	.....	65	.....	19.1
.....	.....	574.63	.....	43	6	1	.....	50	.....	21.4
.....	1,043.00	3,892.46	.....	359	121	9	.....	489	21.7	201.5

STATEMENT

Report Showing Operation of Municipalities

NIAGARA

Municipality	Population	Power Purchased	Operation and Maintenance	Debenture Charges and Interest	Total Operation	Revenue	Gross Surplus
		\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Rockwood.....		2,982.79	454.71	342.65	3,780.15	5,148.30	1,368.15
Rodney.....	676	2,522.47	700.63	531.12	3,754.22	6,033.49	2,279.27
Sarnia.....	13,870	86,888.58	37,032.64	24,544.17	148,465.39	197,578.81	49,113.42
Scarboro Twp.....		5,749.72	4,620.72	5,845.73	16,216.17	20,774.16	4,557.99
Seaforth.....	1,981	13,632.26	3,003.42	1,052.61	17,688.29	21,384.39	3,696.10
Simcoe.....	3,946	7,775.63	2,889.50	1,318.11	11,983.24	15,810.25	3,827.01
Springfield.....	470	1,908.46	358.24	718.26	2,984.96	3,058.26	73.30
St. Catharines.....	19,862	49,991.59	43,797.79	18,967.83	112,757.21	137,525.60	24,768.39
St. George.....		3,025.92	575.53	220.37	3,821.82	4,583.30	761.48
St. Jacobs.....		2,775.48	401.59	365.30	3,542.37	4,329.57	787.20
St. Marys.....	4,004	28,024.07	6,723.30	3,719.89	38,467.26	45,965.99	7,498.73
St. Thomas.....	17,850	62,070.55	34,560.89	5,478.79	102,140.23	131,001.36	28,891.13
Stamford Twp.....		6,834.11	5,385.91	4,481.41	16,701.43	19,026.34	2,324.91
Stratford.....	18,871	60,191.16	27,041.64	14,403.38	101,636.18	121,334.39	19,698.21
Strathroy.....	2,654	14,031.07	6,106.01	3,409.14	23,546.22	29,922.58	6,376.36
Tavistock.....	1,003	8,885.93	983.39	109.77	9,979.09	13,321.24	3,342.15
Thamesford.....		4,622.18	437.43	470.86	5,530.47	6,684.13	1,153.66
Thamesville.....		3,719.25	741.39	829.95	5,290.59	9,299.73	4,009.14
Thorndale.....		3,890.74	293.81	305.84	4,490.39	4,251.61	.....
Thorold.....	5,514	7,050.39	7,606.94	.....	14,657.33	19,501.58	4,844.25
Tilbury.....	1,749	6,101.98	1,903.86	1,231.85	9,237.69	12,447.90	3,210.21
Tillsonburg.....	3,021	13,359.45	6,000.22	2,254.66	21,614.33	26,875.09	5,260.76
Toronto.....	512,812	111,019.01	117,288.41	658,698.90	294,259.32	358,811.05	645,519.73
Toronto Twp.....		6,629.82	3,097.68	4,351.27	14,078.77	25,042.87	10,964.10
Vaughan Twp.....		1,775.52	374.70	2,586.40	4,736.62	5,196.39	459.77
Walkerville.....	7,469	118,454.99	42,808.21	16,330.02	177,593.22	205,841.71	28,248.49
Wallaceburg.....	4,119	21,486.10	9,230.00	4,558.78	35,274.88	48,213.54	12,938.66
Wardsville.....	215	321.84	52.89	65.03	439.76	862.21	422.45
Waterdown.....	816	3,971.59	1,072.38	1,336.98	6,380.95	8,501.55	2,120.60
Waterford.....	1,083	4,374.55	1,961.95	1,285.86	7,622.36	8,897.68	1,275.32
Waterloo.....	5,744	29,065.23	13,674.48	7,387.62	50,127.33	56,496.23	6,368.90
Watford.....	1,633	5,456.37	1,444.31	935.04	7,835.72	9,949.98	2,114.26
Welland.....	9,356	33,834.50	21,038.83	16,818.66	71,691.99	82,865.59	11,173.60
West Lorne.....	770	5,584.68	869.53	507.95	6,962.16	10,374.76	3,412.60
Wellesley.....		4,698.61	772.95	569.31	6,040.87	6,378.43	337.56
Weston.....	3,104	22,696.37	6,425.19	1,243.77	30,365.33	36,068.53	5,703.20
Windsor.....	37,120	203,714.88	173,700.71	51,931.34	429,346.93	513,863.66	84,516.73
Woodbridge.....	661	3,802.81	699.81	417.01	4,919.63	6,445.04	1,525.41
Woodstock.....	10,333	40,036.09	16,242.68	4,439.44	60,718.21	77,893.78	17,175.57
Wyoming.....	475	2,091.69	643.12	921.69	3,656.50	4,484.65	828.15
Zurich.....		4,001.87	420.93	232.83	4,755.63	5,281.96	626.33
Total.....	1,105,493	373,989.93	244,074.59	125,077.92	743,148.54	889,941.22	146,967.55

" B "—Continued

for Period Ending December 31st, 1921

SYSTEM—Continued

Gross Deficit	Depre- ciation	Net Surplus	Net Deficit	Number of Consumers					Per Cent of Consumers to Population	Horse-power taken in Dec., 1921
				Dom. Lt.	Com'l Lt.	Pow-er	Rural	Total		
\$ c.	\$ c.	\$ c.	\$ c.							
.....	410.00	958.15	.....	112	16	4	.....	132	.....	50.0
.....	434.00	1,845.27	.....	120	56	2	.....	178	26.3	34.3
.....	12,937.00	36,176.42	.....	3,591	546	79	.....	4,216	30.4	3,532.2
.....	2,995.00	1,562.99	.....	947	15	8	.....	970	.....	211.9
.....	2,178.00	1,518.10	.....	447	124	13	.....	584	29.5	429.1
.....	1,824.00	2,003.01	.....	222	154	21	.....	397	10.1	343.0
.....	.....	73.30	.....	53	22	2	.....	77	16.4	21.4
.....	14,403.50	10,364.89	.....	4,040	360	84	.....	4,484	22.6	4,115.0
.....	281.00	480.48	.....	86	25	4	1	116	.....	69.0
.....	256.00	531.20	.....	57	23	2	.....	82	.....	113.5
.....	4,264.12	3,234.61	.....	811	153	42	.....	1,006	25.1	952.0
.....	12,282.00	16,609.13	.....	3,355	547	110	222	4,234	22.5	2,992.0
.....	2,237.00	87.91	.....	770	20	9	.....	799	.....	446.3
.....	14,275.00	5,423.21	.....	3,414	455	146	100	4,115	21.3	2,992.0
.....	2,500.00	3,876.36	.....	537	165	23	.....	725	27.3	461.0
.....	515.00	2,827.15	.....	155	64	4	.....	223	22.2	316.3
.....	382.00	771.66	.....	80	27	3	.....	110	.....	104.5
.....	572.00	3,437.14	.....	183	66	4	.....	253	.....	79.0
238.78	197.00	.....	435.78	62	17	2	.....	81	.....	57.9
.....	2,379.00	2,465.25	.....	932	160	2	.....	1,094	19.8	379.3
.....	609.00	2,601.21	.....	193	89	8	.....	290	16.6	192.3
.....	3,008.00	2,252.76	.....	527	189	19	.....	735	24.3	409.0
431,166.42	214,353.31	.....	.....	67,019	12,401	2,488	.....	81,908	16.0	76,292.2
.....	4,419.00	6,545.10	.....	.....	.....	.....	585	585	.....	260.2
.....	1,234.00	.....	774.23	53	10	4	10	77	.....	*
.....	11,946.44	16,302.05	.....	3,171	398	81	.....	3,650	48.9	4,150.9
.....	2,784.00	10,154.66	.....	715	193	36	.....	944	22.9	658.0
.....	.....	422.45	.....	37	15	.....	2	54	25.1	10.0
.....	1,306.00	814.60	.....	154	36	4	87	281	23.8	114.0
.....	592.00	683.32	.....	203	49	7	13	272	23.9	193.3
.....	7,176.87	.....	807.97	1,091	172	68	.....	1,331	23.2	1,416.5
.....	575.00	1,539.26	.....	154	76	8	.....	238	14.6	72.3
.....	8,555.00	2,618.60	.....	1,324	211	44	.....	1,579	16.9	1,729.3
.....	474.00	2,938.60	.....	110	54	3	.....	167	21.7	162.2
.....	330.00	7.56	.....	82	30	4	.....	116	.....	140.4
.....	3,812.00	1,891.20	.....	1,030	120	14	17	1,181	37.5	1,009.0
.....	23,440.00	61,076.73	.....	9,731	1,448	341	.....	11,520	31.0	7,604.5
.....	598.00	927.41	.....	115	36	5	1	157	23.6	194.4
.....	8,752.00	8,423.57	.....	2,060	409	76	.....	2,545	24.6	2,049.4
.....	400.00	428.15	.....	86	39	4	.....	129	27.1	45.5
.....	276.00	350.33	.....	59	39	2	.....	100	.....	26.8
1,675.87	887,890.93	596,564.32	16,454.57	179329	30,210	6,178	2,665	218382	.....	198144.0

STATEMENT

Report Showing Operation of Municipalities

SEVERN

Municipality	Popu- lation	Power Purchased	Operation and Main- tenance	Debenture Charges and Interest	Total Operation	Revenue	Gross Surplus
		\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Alliston.....	1,301	8,947.66	2,028.92	3,643.78	14,620.36	14,194.32	.....
Barrie.....	6,876	27,450.40	7,867.40	3,476.93	38,795.73	44,921.13	6,125.40
Beeton.....	580	7,233.30	467.62	1,233.85	8,934.77	8,742.78	.....
Bradford.....	907	6,054.39	775.71	1,722.04	8,552.14	7,136.53	.....
Coldwater.....	663	3,087.48	697.17	600.17	4,384.82	5,707.69	1,322.87
Collingwood...	6,016	44,861.16	7,267.35	2,085.46	54,213.97	47,485.82	.....
Cookstown.....	.....	3,317.25	611.94	1,026.08	4,955.27	5,516.61	561.34
Creemore.....	603	3,494.32	426.60	492.69	4,413.61	5,737.31	1,324.70
Elmvale.....	.....	5,730.10	825.74	418.25	6,974.09	7,987.92	1,013.83
Midland.....	7,129	33,310.92	8,498.52	7,197.09	49,007.34	56,096.02	7,088.68
Penetang.....	3,896	22,367.18	4,580.98	2,483.70	29,431.86	32,744.63	3,312.77
Port McNicoll	614	1,541.88	416.91	793.81	2,752.60	3,251.52	498.92
Stayner.....	927	5,307.43	858.88	1,177.64	7,343.95	8,850.53	1,506.58
Thornton.....	.....	1,420.00	132.86	676.49	2,229.35	1,571.94	.....
Tottenham.....	452	4,183.18	552.03	1,300.62	6,035.83	4,763.00	.....
Victoria Harbor	1,462	2,120.97	843.33	525.58	3,489.88	3,880.94	391.06
Waubauskene..	.....	1,256.89	340.31	305.58	1,902.78	2,437.21	534.43
Total.....	33,426	181,684.51	37,193.27	29,160.57	248,038.35	261,026.90	23,680.58

EUGENIA

Arthur.....	1,218	10,829.32	937.72	2,130.14	13,897.18	11,399.87	.....
Chatsworth....	326	1,766.98	414.44	560.23	2,741.65	2,839.40	97.75
Chesley.....	1,721	11,744.97	1,484.42	2,653.20	15,882.59	18,171.08	2,288.49
Dundalk.....	690	4,575.06	428.90	515.78	5,519.74	6,758.65	1,238.91
Durham.....	1,400	10,358.25	1,903.94	1,846.06	14,108.25	17,149.96	3,041.71
Elmwood.....	.....	2,650.67	161.43	691.15	3,503.25	3,659.01	155.76
Flesherton....	417	2,765.44	512.25	604.17	3,881.86	3,954.00	72.14
Grand Valley..	595	3,883.65	422.39	1,032.14	5,338.18	7,213.20	1,875.02
Hanover.....	2,842	39,888.41	5,893.97	6,302.01	52,084.39	55,983.02	3,898.63
Holstein.....	.....	1,788.06	154.69	422.15	2,364.90	1,495.10	.....
Kincardine....	2,036	7,061.19	4,587.23	3,415.75	15,064.17	8,824.70	.....
Lacknow.....	918	4,454.69	332.84	1,077.16	5,864.69	5,316.67	.....
Markdale.....	927	3,232.18	842.45	916.69	4,991.32	6,550.85	1,559.53
Mount Forest..	1,825	12,830.19	2,904.90	2,402.25	18,137.34	16,959.97	.....
Neustadt.....	444	7,107.25	562.49	1,333.22	9,002.96	6,086.75	.....
Orangeville...	2,427	9,319.36	2,321.53	3,104.75	14,745.64	15,583.37	837.73
Owen Sound...	12,013	56,720.95	21,800.30	9,628.36	88,149.61	83,340.77	.....
Priceville.....	.....	507.72	17.60	348.72	874.04	644.30	.....
Ripley.....	.....	4,354.38	261.41	745.23	5,361.02	5,103.30	.....
Shelburne.....	1,075	7,945.42	843.82	1,932.79	10,722.03	12,404.42	1,682.39
Tara.....	537	4,333.05	726.22	1,566.46	6,625.73	6,183.78	.....
Teeswater.....	807	4,598.73	357.86	3,148.82	8,105.41	5,580.79	.....
Wingham.....	2,337	19,544.70	7,022.36	4,234.35	30,801.41	32,523.38	1,721.97
Total.....	36,555	232,260.62	54,895.16	50,611.58	337,767.36	333,726.34	18,470.03

" B "—Continued

for Period Ending December 31st, 1921

SYSTEM

Gross Deficit	Depreciation	Net Surplus	Net Deficit	Number of Consumers					Per Cent of Consumers to Population	Horse-power taken in Dec., 1921
				Dom. Lt.	Com'l Lt.	Power	Rural	Total		
\$ c.	\$ c.	\$ c.	\$ c.							
426.04	1,364.00	.....	1,790.04	262	88	15	5	370	28.0	127.8
.....	4,486.00	1,639.40	.....	1,349	267	27	.....	1,643	23.9	916.8
191.99	604.00	.....	795.99	79	30	2	.....	111	19.1	89.1
1,415.61	765.00	.....	2,180.61	104	44	2	.....	150	16.5	68.3
.....	518.00	804.87	.....	87	47	4	.....	138	20.8	65.6
6,728.15	3,924.00	.....	10,652.15	1,138	246	53	2	1,439	23.9	1,362.0
.....	517.00	44.34	.....	76	23	2	.....	101	.....	65.6
.....	387.00	937.70	.....	111	55	6	.....	172	28.5	42.8
.....	547.00	466.83	.....	100	64	7	.....	171	.....	114.5
.....	5,664.00	1,424.68	.....	1,171	202	51	.....	1,424	20.0	1,055.0
.....	2,968.00	344.77	.....	375	89	28	.....	492	12.6	806.1
.....	340.00	158.92	.....	106	26	1	.....	133	21.7	48.9
.....	686.00	820.58	.....	164	65	9	.....	238	25.7	126.3
657.41	312.00	.....	969.41	32	11	.....	.....	43	.....	14.7
1,272.83	437.00	.....	1,709.83	103	47	2	.....	152	33.6	53.6
.....	352.00	39.06	.....	97	36	.....	.....	133	9.1	52.6
.....	202.00	332.43	.....	69	16	3	.....	8	.....	26.8
10,692.03	24,073.00	7,013.58	18,098.03	5,423	1,356	212	7	6,998	.....	5,036.5

SYSTEM

2,497.31	979.00	.....	3,476.31	101	71	5	.....	177	14.5	148.7
.....	233.00	.....	135.25	52	27	1	.....	80	24.5	24.0
.....	1,189.00	1,099.49	.....	269	90	14	.....	373	21.7	297.1
.....	404.00	834.91	.....	106	77	3	.....	186	26.9	103.5
.....	1,071.00	1,970.71	.....	252	87	8	.....	347	24.8	236.0
.....	272.00	.....	116.24	38	17	1	.....	56	.....	46.6
.....	309.00	.....	236.86	85	37	1	.....	123	29.4	53.6
.....	515.00	1,360.02	.....	98	53	2	.....	153	25.7	65.6
.....	3,056.00	842.63	.....	467	110	14	.....	591	20.8	2,628.9
869.80	124.00	.....	993.80	27	18	1	.....	46	.....	10.6
6,239.47	.....	.....	6,239.47	309	96	4	.....	409	20.1	111.2
548.02	.....	.....	548.02	99	58	1	.....	158	17.2	104.5
.....	600.00	959.53	.....	158	66	9	.....	233	25.1	97.8
1,177.37	1,203.00	.....	2,380.37	239	128	10	.....	377	20.6	211.8
2,916.21	611.00	.....	3,527.21	55	29	4	.....	88	19.8	181.0
.....	1,497.09	.....	659.27	221	95	10	.....	326	13.4	185.0
4,808.84	6,392.67	.....	11,201.51	2,075	457	109	12	2,653	22.1	1,577.7
229.74	.....	.....	229.74	17	7	.....	.....	24	.....	8.0
257.72	.....	.....	257.72	55	42	1	.....	98	.....	64.3
.....	886.00	796.39	.....	206	80	7	.....	293	27.2	165.4
441.95	576.00	.....	1,017.95	81	39	6	.....	126	23.5	48.9
2,524.62	.....	.....	2,524.62	118	44	3	.....	165	20.4	100.7
.....	2,660.00	.....	938.03	353	141	27	.....	521	22.3	226.5
22,511.05	22,577.67	7,863.68	34,482.37	5,481	1,869	241	12	7,603	.....	6,697.4

STATEMENT

Report Showing Operation of Municipalities

WASDELLS

Municipality	Popu- lation	Power Purchased	Operation and Main- tenance	Debenture Charges and Interest	Total Operation	Revenue	Gross Surplus
		\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Beaverton.....	975	5,630.75	1,301.34	1,610.05	8,542.14	12,335.66	3,793.52
Brechin.....		3,268.69	354.19	396.45	4,019.33	4,055.90	36.57
Cannington....	896	4,112.90	1,032.18	1,261.26	6,406.34	9,344.88	2,938.54
Kirkfield.....		1,010.96	248.10	544.58	1,803.64	1,657.81	
Sunderland.....		3,607.33	701.82	1,238.82	5,547.97	6,265.67	717.70
Woodville.....	448	3,955.25	668.02	791.37	5,414.64	6,518.48	1,103.84
Total.....	3,819	21,585.88	4,305.65	5,842.53	31,734.06	40,178.40	8,590.17

MUSKOKA

Gravenhurst...	1,432	6,807.01	4,769.58	3,818.56	15,395.15	17,791.74	2,396.59
Huntsville.....	2,176	20,362.63	3,181.63	2,301.81	25,846.07	29,553.61	3,707.54
Total.....	3,608	27,169.64	7,951.21	6,120.37	41,241.22	47,345.35	6,104.13

ST. LAWRENCE

Alexandria.....	2,274	10,316.44	3,241.87	2,504.84	16,063.15	13,939.29	
Apple Hill.....		825.96	190.69	29.40	1,046.05	993.54	
Brockville.....	9,254	55,951.02	28,648.24	18,647.80	103,247.06	105,605.64	2,358.58
Chesterville....	919	11,671.99	1,530.56	940.99	14,143.54	13,850.57	
Lancaster.....	639	2,232.53	101.74	618.51	2,952.78	1,426.55	
Martintown.....		531.71	33.81	232.21	797.73	712.82	
Maxville.....	721	3,735.26	441.76	1,007.25	5,184.27	3,265.31	
Prescott.....	2,758	10,946.18	5,537.88	2,200.91	18,684.97	23,075.74	4,390.77
Williamsburg....		1,333.75	304.50	220.67	1,858.92	1,900.03	41.11
Winchester.....	1,028	6,057.65	1,707.43	907.59	8,672.67	11,215.66	2,542.99
Total.....	19,093	103,602.49	41,738.48	27,310.17	172,651.14	175,985.15	9,333.45

RIDEAU

Carleton Place..	3,430	31,698.59	6,931.86	4,200.20	42,830.65	42,574.23	
Lanark.....	625	556.24	42.98	65.47	664.69	755.84	91.15
Perth.....	3,630	22,699.64	5,177.83	6,218.98	34,096.45	42,043.62	7,947.17
Smith's Falls...	6,665	33,638.60	14,165.49	16,858.51	64,662.60	67,021.88	2,358.78
Total.....	14,350	88,593.07	26,318.16	27,343.16	142,254.39	152,395.07	10,397.10

THUNDER BAY

Port Arthur....	15,201	180,592.95	65,849.72	39,666.65	286,109.32	319,029.63	32,920.31
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“ B ”—Continued

for Period Ending December 31st, 1921

SYSTEM

Gross Deficit	Depre- ciation	Net Surplus	Net Deficit	Number of Consumers					Per Cent of Con- sumers to Popu- lation	Horse- power taken in Dec., 1921
				Dom. Lt.	Com'l Lt.	Po- wer	Rural	Total		
\$ c.	\$ c.	\$ c.	\$ c.							
.....	621.00	3,172.52	.....	159	55	13	98	325	33.3	103.2
.....	134.00	.....	97.43	28	22	3	.....	53	.....	28.4
.....	578.00	2,360.54	.....	182	70	11	.....	263	29.3	80.4
145.83	249.00	.....	394.83	21	16	.....	.....	37	.....	25.8
.....	260.00	457.70	.....	79	35	2	16	132	.....	45.7
.....	192.00	911.84	.....	84	28	3	13	128	.....	54.9
145.83	2,034.00	6,902.60	492.26	553	226	32	127	938	.....	338.4

SYSTEM

.....	2,135.00	261.59	.....	294	75	12	.....	381	26.6	333.8
.....	966.00	2,741.54	.....	339	86	8	.....	433	19.9	994.7
.....	3,101.00	3,003.13	.....	633	161	20	.....	814	.....	1,328.5

SYSTEM

123.86	.....	.....	22,123.86	202	93	8	.....	303	13.3	138.2
52.51	.....	.....	52.51	35	8	1	.....	44	.....	26.8
.....	4,867.00	.....	2,508.42	1,542	340	65	110	2,067	22.3	1,138.0
292.97	534.00	.....	826.97	143	56	3	.....	202	22.0	161.4
1,526.23	.....	.....	1,526.23	42	23	.....	1	66	10.3	21.4
84.91	.....	.....	84.91	36	9	.....	.....	45	.....	13.6
1,918.96	.....	.....	1,918.96	80	43	2	.....	125	17.3	48.2
.....	2,422.00	1,968.77	.....	466	133	18	.....	617	22.4	282.8
.....	124.00	.....	82.89	57	12	1	.....	70	.....	10.0
.....	579.00	1,963.99	.....	212	49	2	...	263	25.6	96.5
5,999.44	8,526.00	3,932.76	9,124.75	2,815	776	100	111	3,802	.....	1,936.9

SYSTEM

256.42	2,231.00	.....	2,487.42	664	150	13	.....	827	24.1	813.6
.....	.....	91.15	.....	75	30	2	.....	107	17.1	39.5
.....	3,725.00	5,222.17	.....	610	174	19	.....	803	22.1	521.7
.....	6,639.25	.....	4,280.47	1,162	232	37	.....	1,431	21.5	699.8
256.42	11,595.25	5,313.32	6,767.89	2,511	586	71	3,168	2,074.6

SYSTEM

.....	11,492.00	21,428.31	3,088	619	64	3,771	24.8	8,083.0
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STATEMENT

Report Showing Operation of Municipalities

OTTAWA

Municipality	Population	Power Purchased	Operation and Maintenance	Debenture Charges and Interest	Total Operation	Revenue	Gross Surplus
		\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Ottawa.....	110,708	107,133.65	114,058.64	45,124.72	266,317.01	328,108.97	61,791.96

TRENT

Bloomfield.....	550	2,341.71	359.47	918.09	3,619.27	3,757.60	138.33
Havelock.....	1,266	2,918.77	902.81	1,821.09	5,642.67	5,955.15	312.48
Kingston.....	22,368	55,636.24	55,113.83	22,248.07	132,998.14	160,520.53	27,522.39
Lakefield.....	1,146	4,984.23	1,502.29	2,330.62	8,817.14	9,316.51	499.37
Marmora.....	853	1,227.59	495.66	1,755.08	3,478.33	5,047.55	1,569.22
Norwood.....	711	1,104.30	997.46	736.25	2,838.01	4,641.03	1,803.02
Omeme.....	557	2,044.94	398.12	1,169.49	3,612.55	4,922.99	1,310.44
Peterboro.....	21,790	106,360.28	49,800.99	16,285.32	172,446.59	186,457.35	14,010.76
Picton.....	3,189	14,126.15	6,508.22	451.28	21,085.65	37,678.90	16,593.25
Wellington.....	850	3,389.36	1,200.43	1,121.47	5,711.26	6,429.66	718.40
Total.....	53,280	194,133.57	117,279.28	48,836.76	360,249.61	424,727.27	64,477.66

ALL

Grand Totals.....	4876650.31	2910335.26	1530795.43	9317781.00	10981942.30	1705441.94
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“ B ”—Concluded

for Period Ending December 31st, 1921

SYSTEM

Gross Deficit	Depre- ciation	Net Surplus	Net Deficit	Number of Consumers					Per Cent of Con- sumers to Popu- lation	Horse- power taken in Dec., 1921
				Dom. Lt.	Com'l Lt.	Po- wer	Rural	Total		
\$ c.	\$ c.	\$ c.	\$ c.	9,955	1,349	228	.....	11,532	10.4	10,494.0

SYSTEM

.....	386.00	.....	247.67	78	16	3	.....	97	17.6	25.0
.....	.....	312.48	.....	248	54	.....	.....	302	23.8	50.9
.....	12,603.00	14,919.39	.....	3,122	802	123	.....	4,047	18.1	2,268.0
.....	901.00	.....	401.63	170	56	6	.....	232	20.2	145.7
.....	.....	1,569.22	.....	109	44	1	.....	154	18.0	49.5
.....	.....	1,803.02	.....	138	64	2	.....	204	28.7	37.5
.....	529.00	781.44	.....	84	30	6	.....	120	21.5	78.5
.....	10,419.00	3,591.76	.....	4,663	729	129	.....	5,521	25.3	5,182.2
.....	955.00	15,638.25	.....	698	156	31	.....	885	27.7	316.3
.....	615.00	103.40	.....	128	44	1	.....	173	20.3	62.1
.....	26,408.00	38,718.96	649.30	9,438	1,995	302	.....	11,735	.....	8,215.7

SYSTEMS

41,280.64	1044434.85	705,795.62	86,069.17	219226	39,147	7,448	2,922	268743	242,349.0
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STATEMENT

Comparative Detailed Operating Reports of Electric Departments of

NIAGARA SYSTEM

Municipality	Acton		Ailsa Craig		Ancaster	
Population	xa	1,594	535		xa	Twp.
Year	1920	1921	1920	1921	1920	1921
EARNINGS						
	\$	c.	\$	c.	\$	c.
Domestic Light.....	3,115.26	3,650.48	1,292.33	1,402.73	6,201.70	7,406.62
Commercial Light.....	1,672.82	2,012.27	630.19	722.21	646.09	891.37
Commercial Power.....	5,230.46	4,965.39	5,400.16	5,297.07	144.17	130.13
Municipal Power.....		592.92				
Street Light.....	1,860.52	1,841.26	801.12	791.00	708.00	768.00
Rural.....			64.77	85.25		
Miscellaneous.....	442.00					
Total.....	12,321.06	13,062.32	8,188.57	8,298.26	7,699.96	9,196.12
EXPENSES						
Power Purchased.....	5,089.11	7,219.94	5,223.55	5,744.46	2,357.59	2,719.89
Sub-Station Operation.....						
Sub-Station Maintenance.....						
Distribution System, Opera- tion and Maintenance.....	2,177.27	1,666.44	59.22	45.10	389.94	474.44
Line Transformer Mainten'ce.....						
Meter Maintenance.....						
Consumers' Premises Exp.....						
Street Light Operation and Maintenance.....	864.31	373.43	52.03	69.60	143.72	167.78
Promotion of Business.....						
Billing and Collecting.....						
Gen. Office—Salaries and Exp.....	914.15	606.84	201.69	150.01	1,261.43	1,500.46
Undistributed Expenses.....	150.00	426.35	47.71			
Miscellaneous Expenses.....						
Interest.....	462.96	112.10	432.25	249.27	1,616.85	1,421.94
Sinking Fund and Principal Payments on Debentures..	*	379.80	*	148.46	*	227.93
Total Expenses.....	9,657.80	10,784.90	6,016.45	6,406.90	5,769.53	6,512.44
Gross Surplus.....	2,663.26	2,277.42	2,172.12	1,891.36	1,930.43	2,683.68
Gross Loss.....						
Depreciation Charge.....	721.00	916.00	414.00	479.00	1,075.00	1,146.00
Net Surplus.....	1,942.26	1,361.42	1,758.12	1,412.36	855.43	1,537.68
Net Loss.....						

* Included in "Interest" in 1920.

xa Operated by Municipal Council.

xb Hydro and Water Departments under one Commission.

“C”

Hydro Municipalities for the years ending Dec. 31st, 1920 and 1921

Aylmer xb 2,241		Ayr xa 796		Baden xa P.V.		Beachville xa P.V.		Blenheim 1,528	
1920	1921	1920	1921	1920	1921	1920	1921	1920	1921
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
6,553.82	7,358.00	1,762.84	1,862.55	1,338.03	958.06	788.33	786.32	3,519.19	4,396.96
5,831.46	6,238.14	1,421.75	1,319.32	a	456.15	375.22	433.10	2,956.41	3,638.77
3,192.47	3,177.35	2,251.84	2,546.21	5,747.18	5,967.22	8,631.75	7,992.11	3,237.99	3,832.93
	656.81								
2,930.00	2,930.00	1,248.00	1,170.00	638.00	580.00	504.00	420.00	2,560.10	2,197.00
					42.12	52.52	261.83		
18,507.75	20,360.30	6,684.43	6,898.08	7,723.21	8,003.55	10,351.82	9,893.36	12,273.69	14,065.66
6,914.46	8,262.56	2,979.68	3,304.43	5,356.87	5,974.22	7,754.08	8,517.36	5,813.80	7,343.51
2,436.38	2,847.33	117.23	347.46	116.40	430.69	143.51	243.66	1,058.82	1,792.05
332.61	129.88	78.20	166.85	36.31	156.10	60.32	112.81	312.20	353.09
587.41	755.61	488.55	317.03	404.62	380.23	424.78	402.15	832.85	885.93
253.79									
3,923.74	1,611.04	1,119.31	309.33	153.51				1,116.18	832.95
*	673.40	*	715.83	*	116.75	*	124.21	*	236.98
14,448.39	14,279.82	4,782.97	5,160.93	6,067.71	7,057.99	8,382.69	9,400.19	9,133.85	11,444.51
4,059.36	6,080.48	1,901.46	1,737.15	1,655.50	945.56	1,969.13	493.17	3,139.84	2,621.15
1,006.00	1,087.00	496.00	540.00	420.00	438.00	504.00	543.00	938.00	1,097.00
3,053.36	4,993.48	1,405.46	1,197.15	1,235.50	507.56	1,465.13		2,201.84	1,524.15
							49.83		

a Domestic and Commercial Lights combined.

* Included in "Interest" in 1920.

xa Operated by Municipal Council.

xb Hydro and Water Departments under one Commission.

STATEMENT

Comparative Detailed Operating Reports of Electric Departments of

**NIAGARA
SYSTEM—Continued**

Municipality	Bolton		Bothwell		Brampton	
Population	xa	656	630		xb	4,406
Year	1920	1921	1920	1921	1920	1921
EARNINGS						
	\$	c.	\$	c.	\$	c.
Domestic Light.....	1,450.23	1,963.73	1,706.75	2,040.83	9,746.87	12,186.84
Commercial Light.....	1,380.69	1,593.76	1,306.66	1,532.34	5,246.44	5,659.49
Commercial Power.....	4,060.05	3,473.82	223.65	885.08	13,536.96	12,152.28
Municipal Power.....				88.25	1,091.06	1,198.82
Street Light.....	900.69	944.04	1,146.96	1,142.28	4,035.33	4,126.00
Rural.....	1,035.06	1,106.04	6,425.00	5,946.24		
Miscellaneous.....					26.69	253.10
Total.....	8,826.72	9,081.39	10,809.02	11,635.02	33,683.35	35,576.53
EXPENSES						
Power Purchased.....	5,049.19	5,945.83	6,143.05	7,031.51	20,818.69	21,166.54
Sub-Station Operation.....					10.89	
Sub-Station Maintenance.....						47.45
Distribution System, Operation and Maintenance.....	474.11	1,345.17	97.15	426.46	1,129.56	1,151.34
Line Transformer Maintenance.....					236.75	90.25
Meter Maintenance.....					255.91	285.58
Consumers' Premises Exp.....						
Street Light Operation and Maintenance.....	80.03	87.06	45.05	105.46	468.13	451.70
Promotion of Business.....						
Billing and Collecting.....					1,441.71	1,740.63
Gen. Office—Salaries and Exp.....	298.58	180.77	324.72	355.08	2,199.55	1,897.08
Undistributed Expenses.....			12.18		76.22	30.00
Miscellaneous Expenses.....						
Interest.....	1,301.84	1,094.50	1,320.51	576.24	3,577.07	869.52
Sinking Fund and Principal Payments on Debentures..	*	292.63	*	632.08	*	2,398.52
Total Expenses.....	7,203.75	8,945.96	7,942.66	9,126.83	30,214.48	30,128.61
Gross Surplus.....	1,622.97	135.43	2,866.36	2,508.19	3,468.87	5,447.97
Gross Loss.....						
Depreciation Charge.....	843.00	938.00	574.00	308.00	3,963.00	4,156.00
Net Surplus.....	779.97		2,292.36	2,200.19		1,291.92
Net Loss.....		802.57			494.13	

* Included in "Interest" in 1920.
 xa Operated by Municipal Council.
 xb Hydro and Water Departments under one Commission.

“C”—Continued

Hydro Municipalities for the years ending Dec. 31st, 1920 and 1921

Brantford xb 32,786		Brantford Twp.		Brigden xa P.V.		Burford xa P.V.		Burgessville xa P.V.	
1920	1921	1920	1921	1920	1921	1920	1921	1920	1921
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
44,754.95	59,931.17	6,277.87	7,725.17	862.91	1,174.28	2,023.41	2,817.52	593.18	756.62
10,398.10	12,373.68	670.44	1,171.09	1,384.25	1,276.89	1,194.81	1,673.49	147.91	288.50
47,091.53	56,408.99	4,225.66	5,094.81	4,868.59	4,115.94	279.34	132.50	688.75	821.31
23,517.63	22,938.31								
23,557.89	23,813.12	2,131.25	2,504.70	1,043.75	976.66	752.00	768.00	361.00	380.00
149,320.10	175,465.27	13,306.21	16,495.77	8,159.48	7,543.77	4,249.56	5,391.51	1,790.84	2,246.43
74,367.64	92,629.23	4,170.64	5,957.15	4,176.59	4,925.99	2,400.95	3,386.56	1,117.11	1,232.15
4,402.04	4,541.69								
426.66	2,101.64								
3,703.54	1,844.42	1,784.31	912.67	136.95	108.40	150.03	177.01	145.94	6.51
513.04	945.61								
4,207.07	4,080.55								
321.10	341.22								
7,481.18	11,693.69	264.06	336.25	94.70	104.26	42.92	98.75	20.25	34.25
2,684.53	1,446.64								
3,356.03	3,841.80								
5,629.11	7,806.43	2,034.66	2,321.81	439.36	550.31	452.18	227.01	3.68	64.62
5,801.83	5,402.79		225.00						
19,782.38	15,278.48	4,249.19	2,466.98	921.95	291.33	505.52	293.78	278.27	149.96
*	7,221.00	*	1,899.53	*	624.17	*	202.64	*	127.67
132,676.15	159,175.19	12,502.86	14,119.39	5,769.55	6,604.46	3,551.60	4,385.75	1,565.25	1,615.16
16,643.95	16,290.08	803.35	2,376.38	2,389.93	939.31	697.96	1,005.76	225.59	631.27
12,790.00	15,444.35	1,812.00	1,999.00	351.00	391.00	305.00	350.00	170.00	182.00
3,853.95	845.73		377.38	2,038.93	548.31	392.96	655.76	55.59	449.27
		1,008.65							

* Included in "Interest" in 1920.

xa Operated by Municipal Council.

xb Hydro and Water Departments under one Commission.

STATEMENT

Comparative Detailed Operating Reports of Electric Departments of

NIAGARA SYSTEM—Continued

Municipality	Caledonia		Chatham		Chippawa	
Population	1,308		15,525		1,099	
Year	1920	1921	1920	1921	1920	1921
EARNINGS						
	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Domestic Light.....	671.96	994.76	43,039.25	48,442.47	2,078.72	2,932.89
Commercial Light.....	1,155.64	1,584.02	27,592.06	31,165.17	269.76	723.18
Commercial Power.....	989.23	1,139.37	59,865.94	69,336.78		
Municipal Power.....			2,963.14	3,001.78		
Street Light.....	1,092.96	1,010.65	13,557.04	13,683.76	1,152.00	1,152.00
Rural.....			272.88			
Miscellaneous.....				1,800.00		
Total.....	3,909.79	4,728.80	147,290.31	167,429.96	3,500.48	4,808.07
EXPENSES						
Power Purchased.....	1,596.05	2,180.89	67,557.26	67,580.08	760.70	1,481.67
Sub-Station Operation.....			5,009.34	5,851.46		
Sub-Station Maintenance.....			1,240.23	3,496.78		
Distribution System, Opera- tion and Maintenance.....	394.96	396.11	1,404.70	4,397.66	257.79	615.18
Line Transformer Maintenan'ce.....			1,118.68	1,204.49		
Meter Maintenance.....			716.79	2,753.61		
Consumers' Premises Exp.....			187.58	371.10		
Street Light Operation and Maintenance.....	85.49	125.67	5,417.16	4,162.79	539.05	298.60
Promotion of Business.....				4,723.66		
Billing and Collecting.....			4,092.06	4,631.91		
Gen. Office—Salaries and Exp.....	176.84	164.90	9,012.79	12,333.31	252.42	348.84
Undistributed Expenses.....			3,156.61	3,634.01		
Miscellaneous Expenses.....						
Interest.....	350.22	226.85	17,120.10	16,203.27	755.57	680.36
Sinking Fund and Principal Payments on Debentures..	*	119.56	*	4,847.25	*	274.32
Total Expenses.....	2,603.56	3,213.98	116,033.30	136,191.38	2,565.53	3,698.97
Gross Surplus.....	1,306.23	1,514.82	31,257.01	31,238.58	934.95	1,109.10
Gross Loss.....						
Depreciation Charge.....	445.00	487.00	7,682.00	10,050.00	501.84	632.00
Net Surplus.....	861.23	1,027.82	23,575.01	21,188.58	433.11	477.10
Net Loss.....						

* Included in "Interest" in 1920.

xa Operated by Municipal Council.

xb Hydro and Water Departments under one Commission.

"C"—Continued

Hydro Municipalities for the years ending Dec. 31st, 1920 and 1921

Clinton xb 1,838		Comber xa P.V.		Dashwood P.V.		Delaware xa P.V.		Dereham Twp. xa	
1920	1921	1920	1921	1920	1921	1920	1921	1920	1921
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
5,013.77	6,045.27	958.81	1,275.54	578.84	662.20	852.14	822.74		
3,586.69	4,064.94	1,106.74	1,289.89	408.21	484.77	17.15	505.52		
3,945.90	3,213.09	4,824.67	5,294.15	1,524.60	1,626.21				
706.41	744.89			738.00					
1,692.11	1,654.79	875.04	875.04		666.25	378.00	378.00		
268.82	475.89							6,749.17	7,785.76
15,213.70	16,198.87	7,765.26	8,734.62	3,249.65	3,439.43	1,247.29	1,706.26	6,749.17	7,785.76
7,271.67	7,224.64	4,770.69	5,312.48	2,456.59	3,126.68	603.70	857.64	2,011.61	3,096.88
457.13	571.95	278.70	228.53	7.50	8.88	13.73	10.49	986.07	966.81
184.87	146.18	48.50	84.76	67.02	68.32	14.00	71.19		
1,708.93	1,586.80	259.20	348.79	219.08	228.70	45.83	59.35	474.99	397.29
3,000.53	2,044.20	653.55	514.13	224.06	159.08	208.75	152.32	3,397.34	3,413.75
*	972.49	*	310.25	*	58.13	*	80.71		
12,623.13	12,546.26	6,010.64	6,798.94	2,974.25	3,649.79	886.01	1,231.70	6,870.01	7,874.73
2,590.57	3,652.61	1,754.62	1,935.68	275.40		361.28	474.56		
					210.36			120.84	88.97
1,356.00	1,490.00	292.00	368.00	164.00	172.00	134.00	141.00	2,112.00	2,195.00
1,234.57	2,162.61	1,462.24	1,567.68	111.40		227.28	333.56		
					382.36			2,232.84	2,283.97

* Included in "Interest" in 1920.

xa Operated by Municipal Council.

xb Hydro and Water Departments under one Commission.

STATEMENT

Comparative Detailed Operating Reports of Electric Departments of

NIAGARA SYSTEM—Continued

Municipality	Dorchester		Drayton		Dresden	
Population	P.V.		xa	602	1,393	
Year	1920	1921	1920	1921	1920	1921
EARNINGS						
	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Domestic Light.....	1,274.20	1,511.61	1,582.55	1,925.38	3,165.58	3,475.26
Commercial Light.....	345.51	473.05	1,250.48	1,337.86	2,941.56	2,808.43
Commercial Power.....	398.94	544.88	954.57	1,223.58	6,765.64	5,404.44
Municipal Power.....						307.08
Street Light.....	493.00	493.00	1,080.00	1,080.00	1,682.00	1,693.25
Rural.....						
Miscellaneous.....					31.54	
Total.....	2,511.65	3,022.54	4,867.60	5,566.82	14,586.32	13,688.46
EXPENSES						
Power Purchased.....	1,005.45	1,247.24	3,109.98	3,400.14	6,266.51	6,237.28
Sub-Station Operation.....						
Sub-Station Maintenance.....						
Distribution System, Operation and Maintenance.....	96.87	307.00	67.73	22.90	1,085.53	1,456.89
Line Transformer Maintenance.....						
Meter Maintenance.....						
Consumers' Premises Exp.....						
Street Light Operation and Maintenance.....	62.95	61.48	7.00	101.96		
Promotion of Business.....						
Billing and Collecting.....						
Gen. Office—Salaries and Exp.....	202.58	198.78	164.00	216.21	613.21	634.44
Undistributed Expenses.....						
Miscellaneous Expenses.....						206.94
Interest.....	253.62	162.51	667.08	517.64	1,396.48	491.65
Sinking Fund and Principal Payments on Debentures..	*	82.60	*	157.11	*	760.70
Total Expenses.....	1,621.47	2,059.61	4,014.79	4,415.96	9,361.73	9,787.90
Gross Surplus.....	800.18	962.93	852.81	1,150.86	5,224.59	3,900.56
Gross Loss.....						
Depreciation Charge.....	273.00	306.00	393.00	422.00	683.00	796.00
Net Surplus.....	617.18	656.93	459.81	728.86	4,541.59	3,104.56
Net Loss.....						

* Included in "Interest" in 1920.

xa Operated by Municipal Council.

xb Hydro and Water Departments under one Commission.

“ C ”—Continued

Hydro Municipalities for the years ending Dec. 31st, 1920 and 1921

Drumbo xa P.V.		Dublin xa P.V.		Dundas xb 5,054		Dunnville 3,569		Dutton 870	
1920	1921	1920	1921	1920	1921	1920	1921	1920	1921
\$ c. 722.83 674.50 109.84 480.00 2.13	\$ c. 949.84 671.94 312.34 440.00 10.94	\$ c. 393.82 423.54 1,095.00 700.00	\$ c. 503.50 562.44 1,172.31 700.00	\$ c. 8,244.97 5,239.16 21,557.58 167.66 2,930.91 2,309.18 479.09	\$ c. 11,047.75 6,174.18 21,520.47 197.16 3,307.22 450.35 268.94	\$ c. 3,227.66 6,115.30 4,386.54 1,446.01 4,457.40 131.02	\$ c. 3,982.33 6,971.57 4,239.39 1,641.62 4,470.27 501.56	\$ c. 1,835.49 1,324.59 2,359.98 1,294.39 41.10	\$ c. 2,035.51 1,410.52 2,483.44 1,244.30 39.87
1,989.30	2,385.06	2,612.36	2,938.25	40,928.55	42,966.07	19,763.93	21,806.74	6,855.55	7,213.64
826.50	1,080.01	1,341.17	2,169.97	18,712.98	20,937.71	10,142.98	10,918.66	3,454.09	4,278.18
.....	.....	.....	.....	127.52	162.13	.....	.....	.....	.....
115.36	67.32	15.35	208.80	2,409.64	1,246.39	148.35	906.36	146.65	284.64
.....	.....	.....	.....	312.16	458.80	.....	.....	.....	.....
.....	.....	.....	.....	296.91	489.99	.....	.....	.....	.....
34.98	48.40	88.54	91.15	572.47	772.04	344.01	334.15	138.65	129.60
.....	.....	.....	.....	2,076.25	2,100.03	.....	.....	.....	.....
109.56	94.36	155.79	145.10	3,043.08	2,606.39	2,865.50	2,779.60	906.75	903.50
.....	.....	.....	.....	2,955.67	2,992.22	.....	.....	.....	.....
283.96	167.07	519.46	364.17	3,787.70	2,274.00	5,141.02	4,086.06	506.58	276.16
*	90.77	*	229.20	*	1,120.82	*	1,013.95	*	169.27
1,370.36	1,547.93	2,120.31	3,208.39	34,294.38	35,160.52	18,641.86	20,038.78	5,152.72	6,041.35
618.94	837.13	492.05	.....	6,634.17	7,805.55	1,122.07	1,767.96	1,702.83	1,172.29
.....	.....	.....	270.14	.....	.....	.....	.....	.....	.....
191.00	203.00	243.00	253.00	4,132.00	4,400.00	2,275.00	2,641.00	489.00	530.00
427.94	634.13	249.05	.....	2,502.17	3,405.55	.....	.....	1,213.83	642.29
.....	.....	.....	523.14	.....	.....	1,152.93	873.04	.....	.....

* Included in "Interest" in 1920.
xa Operated by Municipal Council.
xb Hydro and Water Departments under one Commission.

STATEMENT

Comparative Detailed Operating Reports of Electric Municipalities of

**NIAGARA
SYSTEM—Continued**

Municipality Population	Elmira xb 2,400		Elora 1,199		Embryo 463	
Year	1920	1921	1920	1921	1920	1921
EARNINGS						
	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Domestic Light.....	4,582.08	5,990.36	2,087.52	2,590.55	1,189.47	1,512.70
Commercial Light.....	2,821.51	3,082.61	2,362.02	2,394.68	1,073.32	1,234.16
Commercial Power.....	5,893.58	7,796.89	6,997.35	6,144.11	1,722.08	1,930.84
Municipal Power.....	224.21	223.31				
Street Light.....	1,771.00	1,610.00	1,009.00	970.50	845.76	845.76
Rural.....			169.08	154.53		
Miscellaneous.....	592.49	476.75	505.03	426.91	1.28	
Total.....	15,884.87	19,179.92	13,130.00	12,681.28	4,831.91	5,523.46
EXPENSES						
Power Purchased.....	7,534.73	10,187.41	6,748.21	7,947.21	3,064.83	3,276.11
Sub-Station Operation.....						
Sub-Station Maintenance.....						
Distribution System, Operation and Maintenance.....	1,085.00	805.55	1,581.29	1,350.75	53.26	79.82
Line Transformer Maintenance.....						
Meter Maintenance.....						
Consumers' Premises Exp.....						
Street Light Operation and Maintenance.....	166.11	273.90	147.25	255.96	75.35	54.96
Promotion of Business.....						
Billing and Collecting.....						
Gen. Office—Salaries and Exp.....	1,558.53	2,362.12	871.57	1,211.10	257.32	203.06
Undistributed Expenses.....						
Miscellaneous Expenses.....						
Interest.....	1,447.96	1,036.19	1,027.00	573.11	736.97	507.46
Sinking Fund and Principal Payments on Debentures...	*	380.39	*	401.44	*	216.12
Total Expenses.....	11,792.33	15,045.56	10,375.32	11,739.57	4,187.73	4,337.53
Gross Surplus.....	4,092.54	4,134.36	2,754.68	941.71	644.18	1,185.93
Gross Loss.....						
Depreciation Charge.....	1,248.00	1,417.00	870.00	937.00	387.00	408.00
Net Surplus.....	2,844.54	2,717.36	1,884.68	4.71	257.18	777.93
Net Loss.....						

* Included in "Interest" in 1920.

xa Operated by Municipal Council.

xb Hydro and Water Departments under one Commission.

"C"—Continued

Hydro Municipalities for the years ending Dec. 31st, 1920 and 1921

Etobicoke Township		Exeter 1,458		Fergus xa 1,815		Forest 1,386	
1920	1921	1920	1921	1920	1921	1920	1921
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
17,352.35	21,326.96	3,402.65	4,196.23	3,030.75	4,072.20	4,406.18	5,366.42
1,985.92	2,734.25	2,558.70	2,815.15	2,775.01	3,873.68	2,696.04	3,348.69
5,078.76	5,076.25	4,353.17	4,566.28	3,522.57	3,582.53	4,216.26	4,096.29
		45.80	349.85		609.40	94.03	99.18
3,741.99	3,867.66	2,562.48	2,182.98	1,640.33	1,996.57	2,852.56	2,621.62
		477.35	376.95			131.45	466.26
28,159.02	33,005.12	13,400.15	14,487.44	10,968.66	14,134.38	14,396.52	15,998.46
5,880.85	8,382.37	6,118.90	8,531.44	6,056.91	7,619.95	5,968.41	6,779.33
2,519.63	2,364.29	45.56	224.54	1,691.07	1,789.04	621.39	1,988.16
384.21	565.84	415.72	315.52	76.72	238.99	125.40	204.33
2,017.96	2,048.00	1,970.16	1,516.26	1,019.33	1,044.23	1,763.69	1,141.01
7,165.83	6,073.15	1,202.29	664.32	1,367.14	383.38 1,416.35	2,811.10	1,373.43
*	1,453.74	*	534.83	*	304.57	*	1,364.00
17,968.48	20,887.39	9,752.63	11,786.91	10,211.17	12,796.51	11,289.99	12,850.26
10,190.54	12,117.73	3,647.52	2,700.53	757.49	1,337.87	3,106.53	3,148.20
4,638.00	5,380.00	879.00	959.00	1,090.00	1,285.00	1,033.00	1,171.00
5,552.54	6,737.73	2,768.52	1,741.53		52.87	2,073.53	1,977.20

* Included in "Interest" in 1920.

xa Operated by Municipal Council.

xb Hydro and Water Departments under one Commission.

STATEMENT

Comparative Detailed Operating Reports of Electric Departments of

**NIAGARA
SYSTEM—Continued**

Municipality	Galt		Georgetown		Glencoe	
Population	13,092		2,554		779	
Year	1920	1921	1920	1921	1920	1921
EARNINGS						
	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Domestic Light.....	38,460.34	44,879.01	4,599.82	5,043.90	630.50	2,927.75
Commercial Light.....	17,575.07	19,055.01	3,276.91	2,964.37	675.34	2,724.24
Commercial Power.....	44,844.42	42,281.52	15,551.70	13,402.15	130.68	2,110.44
Municipal Power.....	4,315.01	4,797.97	149.42	144.79		
Street Light.....	16,352.90	16,548.50	1,520.76	1,623.11	768.75	3,075.00
Rural.....			5,000.05	5,627.07		
Miscellaneous.....	1,822.59	3,974.14	312.06			72.00
Total.....	123,370.33	131,536.15	30,410.72	28,805.39	2,205.27	10,909.43
EXPENSES						
Power Purchased.....	56,601.99	64,467.06	16,197.02	21,458.22	1,065.03	5,084.48
Sub-Station Operation.....	4,480.32	4,837.50				
Sub-Station Maintenance.....	492.20	89.23				
Distribution System, Operation and Maintenance....	953.00	1,253.93	2,677.90	1,924.94	82.37	95.50
Line Transformer Maintenance.....	123.82	342.50				
Meter Maintenance.....	2,075.12	302.30				
Consumers' Premises Exp.....						
Street Light Operation and Maintenance.....	3,223.54	5,935.73	215.23	473.81	22.19	229.93
Promotion of Business.....						
Billing and Collecting.....	3,282.63	3,420.94				
Gen. Office—Salaries and Exp.....	6,354.68	6,394.57	1,342.00	1,562.28	145.77	503.06
Undistributed Expenses.....	866.27	1,391.15		66.07		
Miscellaneous Expenses.....						
Interest.....	15,583.60	10,562.20	1,422.26	716.34	37.39	1,585.25
Sinking Fund and Principal Payments on Debentures..	*	5,944.26	*	380.39	*	1,044.45
Total Expenses.....	94,037.17	104,941.37	21,854.41	26,582.05	1,352.75	8,542.67
Gross Surplus.....	29,333.16	26,594.78	8,556.31	2,223.34	852.52	2,366.76
Gross Loss.....						
Depreciation Charge.....	11,959.00	13,282.16	2,031.00	2,179.00		806.00
Net Surplus.....	17,374.16	13,312.62	6,525.31	44.34	852.52	1,560.76
Net Loss.....						

"C"—Continued

Hydro Municipalities for the years ending Dec. 31st, 1920 and 1921

Goderich xb 4,287		Grantham Twp. xi		Granton P.V.		Guelph xc 17,922		Hagersville xa 1,139	
1920	1921	1920	1921	1920	1921	1920	1921	1920	1921
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
10,687.31	12,258.50			886.41	1,085.25	30,371.10	38,421.71	2,132.34	2,340.28
6,367.10	6,097.39			407.45	508.75	19,523.95	23,439.07	1,611.37	1,928.84
11,948.48	11,256.85			1,562.80	1,747.17	58,091.84	72,549.55	9,129.99	12,919.71
4,602.48	4,602.54					11,443.12			
4,148.38	4,163.04			480.00	480.00	9,145.47	9,021.12	941.70	833.32
		5,788.41	7,852.83						
	789.45					4,239.49	1,340.25		22.20
37,753.75	39,167.77	5,788.41	7,852.83	3,336.66	3,821.17	132,814.97	144,771.70	13,815.40	18,044.35
21,361.52	21,554.59	1,234.59	1,405.83	2,040.98	2,242.62	71,075.42	84,268.29	7,350.94	11,754.85
2,379.55	3,177.67					4,822.10	4,079.63		
1,214.66	1,158.67	479.76	964.18	20.30	36.35	6,746.40	6,018.37	618.58	890.84
448.87	251.59					1,386.27	1,178.22		
8.74	877.22					5,550.28	1,702.78		
436.95	176.75			100.75	47.09	2,995.56	4,351.50	131.40	60.67
915.33	905.77					5,641.95	4,856.48		
1,726.79	1,711.76	365.62	442.35	129.32	108.98	5,632.98	5,554.30	977.77	1,201.45
298.52	423.28					3,960.04	6,491.98		
4,668.00	2,365.02	3,034.31	2,178.12	286.05	212.34	7,650.88	3,340.73	335.66	205.62
*	2,238.52	*	895.24	*	59.25	*	5,037.65	*	208.12
33,458.93	34,840.84	5,114.28	5,885.72	2,577.31	2,706.63	45,461.88	126,979.93	9,414.35	14,321.55
4,294.82	4,326.93	674.13	1,967.11	759.35	1,114.54	17,353.09	17,791.77	4,401.15	3,722.80
3,956.00	4,260.00	440.30	475.40	202.00	217.00	11,050.00	12,466.00	668.00	708.00
338.82	66.93	233.83	1,491.71	557.35	897.54	6,303.09	5,325.77	3,733.05	3,014.80

* Included in "Interest" in 1920.

xa Operated by Municipal Council.

xb Hydro and Water Departments under one Commission.

xi. Operated by St. Catharines.

xc Hydro and Gas under one Commission.

STATEMENT

Comparative Detailed Operating Reports of Electric Departments of

NIAGARA SYSTEM—Continued

Municipality	Hamilton		Harriston		Hensall ^{xa}	
Population	114,766		1,326		687	
Year	1920	1921	1920	1921	1920	1921
EARNINGS						
	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Domestic Light.....	194,103.14	237,348.81	2,809.01	3,412.75	1,864.17	2,099.20
Commercial Light.....	44,501.23	53,217.08	2,377.90	2,498.35	1,083.89	1,391.61
Commercial Power.....	217,867.16	193,937.52	9,046.35	7,731.21	1,701.17	1,046.19
Municipal Power.....	30,595.96	28,440.82	663.23	595.57	74.88	50.33
Street Light.....	66,689.44	65,438.53	930.00	915.00	946.25	975.00
Rural.....	10,914.12	12,664.57				
Miscellaneous.....	13,899.80	17,639.82				
Total.....	578,570.85	608,687.15	15,826.49	15,152.88	5,670.36	5,562.33
EXPENSES						
Power Purchased.....	283,321.68	304,139.38	10,971.20	8,314.86	3,393.45	3,079.13
Sub-Station Operation.....	20,473.22	21,587.41				
Sub-Station Maintenance.....	4,637.64	2,178.27				
Distribution System, Operation and Maintenance....	14,156.32	21,026.31	864.24	1,176.76	135.43	177.94
Line Transformer Maintenance.....	5,231.61	7,556.81				
Meter Maintenance.....	13,024.44	10,027.55				
Consumers' Premises Exp....	5,551.97	6,028.08				
Street Light Operation and Maintenance.....	9,658.71	16,794.08	112.51	282.01	275.78	224.88
Promotion of Business.....	5,685.49	6,039.84				
Billing and Collecting.....	28,944.19	25,433.87				
Gen. Office—Salaries and Exp.	27,732.98	27,599.98	1,079.44	581.83	323.71	398.77
Undistributed Expenses.....	10,401.94	15,319.00				
Miscellaneous Expenses.....	3,796.24	615.04				
Interest.....	48,155.34	52,246.27	1,564.56	789.95	872.92	612.07
Sinking Fund and Principal Payments on Debentures..	26,458.64	26,768.71	*	603.94	*	228.70
Total Expenses.....	507,230.41	547,360.60	14,591.95	11,749.35	5,001.29	4,721.49
Gross Surplus.....	71,340.44	61,326.55	1,234.54	3,403.53	669.07	840.84
Gross Loss.....						
Depreciation Charge.....	54,365.72	61,173.28	724.00	783.00	498.00	524.00
Net Surplus.....	16,974.72	153.27	510.54	2,620.53	171.07	316.84
Net Loss.....						

* Included in "Interest" in 1920.

xa Operated by Municipal Council.

xb Hydro and Water Departments under one Commission.

xe Hydro, Gas and Railway under one Commission.

“C”—Continued

Hydro Municipalities for the years ending Dec. 31st, 1920 and 1921

Hespeler 3,059		Highgate xa 403		Ingersoll xb 5,422		Kitchener xc 23,027	
1920	1921	1920	1921	1920	1921	1920	1921
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
5,626.85	6,648.35	861.91	1,065.47	11,307.12	12,913.37	39,506.53	48,095.22
2,414.32	2,803.97	738.31	879.34	6,419.44	7,368.55	25,744.25	32,306.38
7,780.26	6,920.14	1,675.62	1,318.16	22,767.78	19,802.79	117,559.59	101,556.89
382.28	319.31			898.22	833.29	25,465.75	22,677.04
2,000.40	1,858.50	709.50	669.00	4,086.57	3,810.00	14,617.99	16,163.77
	40.65			780.40	1,305.30	3,427.83	3,533.46
18,204.11	18,590.92	3,985.39	3,931.97	46,259.53	46,033.30	226,321.94	224,332.76
8,922.09	9,841.93	2,466.02	2,080.99	24,478.35	25,721.93	130,187.39	137,226.38
	1,360.23				1,130.01	7,787.62	8,179.08
1,122.67	219.20			1,104.12		553.77	1,475.15
1,980.76	853.63	37.33	130.25	1,577.81	1,927.00	10,936.29	10,633.79
	294.82			38.82	47.99	295.79	899.09
				202.11	743.77	3,060.08	4,407.40
140.71	402.09	95.53	43.26	1,003.91	1,909.96	3,870.42	5,021.19
						35.54	104.87
				1,791.04	1,781.40	4,443.88	5,123.28
1,942.76	2,401.47	171.46	249.20	2,035.53	2,166.53	4,834.64	5,152.68
	571.04			2,506.57	2,071.60	3,784.90	6,039.77
2,709.36	652.49	326.21	233.78	3,345.53	1,801.79	15,676.40	7,838.75
*	1,530.94	*	91.48	*	1,677.35	*	9,244.50
16,818.35	18,127.84	3,096.55	2,828.96	38,083.36	40,979.33	185,466.32	201,345.93
1,385.76	463.08	888.84	1,103.01	8,176.17	5,053.97	40,855.62	22,986.83
1,800.00	2,088.00	274.00	289.00	3,825.00	3,995.00	17,357.00	19,567.00
		614.84	814.01	4,351.17	1,058.97	23,498.72	3,419.83
414.24	1,624.92						

* Included in “Interest” in 1920.

xa Operated by Municipal Council.

xb Hydro and Water Departments under one Commission.

xc Hydro, Gas and Railway under one Commission.

STATEMENT

Comparative Detailed Operating Reports of Electric Departments of

NIAGARA SYSTEM—Continued

Municipality Population	Lambeth xa P.V.		Listowel xb 2,571		London xb 59,281	
Year	1920	1921	1920	1921	1920	1921
EARNINGS	a					
	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Domestic Light.....	1,242.88	1,616.48	5,657.29	8,190.77	143,963.71	185,949.18
Commercial Light.....	339.28	414.56	3,884.08	4,700.32	76,450.76	92,874.24
Commercial Power.....		305.58	11,441.68	11,664.28	187,776.60	218,138.49
Municipal Power.....	312.00		1,702.10	1,317.77	23,304.59	27,308.78
Street Light.....	480.00	520.00	3,464.00	3,501.00	32,679.27	36,087.06
Rural.....					2,415.35	3,283.24
Miscellaneous.....					30,576.40	26,248.63
Total.....	2,374.16	2,856.62	26,149.15	29,374.14	497,166.68	589,889.62
EXPENSES						
Power Purchased.....	1,277.46	1,341.93	16,048.92	15,222.99	224,093.93	291,370.63
Sub-Station Operation.....					17,562.06	20,463.89
Sub-Station Maintenance.....					1,400.28	4,120.08
Distribution System, Operation and Maintenance.....	60.40	180.45	1,036.61	1,146.82	8,220.18	12,711.14
Line Transformer Maintenance.....					2,894.12	4,818.82
Meter Maintenance.....					16,244.38	16,966.30
Consumers' Premises Exp.....					6,933.08	8,397.00
Street Light Operation and Maintenance.....	34.30	29.66	1,022.38	1,060.34	7,642.86	5,889.75
Promotion of Business.....					2,625.33	7,168.23
Billing and Collecting.....					18,507.43	21,870.51
Gen. Office—Salaries and Exp.....	107.88	158.33	3,312.07	3,672.77	26,863.70	36,546.40
Undistributed Expenses.....					26,708.72	26,475.96
Miscellaneous Expenses.....						
Interest.....	331.26	241.51	3,480.95	1,583.77	39,997.64	48,983.72
Sinking Fund and Principal Payments on Debentures..	*	67.71	*	2,195.35	20,818.51	24,701.76
Total Expenses.....	1,811.30	2,019.59	24,900.93	24,882.04	420,512.22	530,484.19
Gross Surplus.....	562.86	837.03	1,248.22	4,492.10	76,654.46	59,405.43
Gross Loss.....						
Depreciation Charge.....	204.00	216.00	1,700.00	2,043.00	52,593.56	58,898.95
Net Surplus.....	358.86	621.03		2,449.10	24,060.90	506.48
Net Loss.....			451.78			

* Included in "Interest" in 1920.

xa Operated by Municipal Council.

xb Hydro and Water Departments under one Commission.

"C"—Continued

Hydro Municipalities for the years ending Dec. 31st, 1920 and 1921

Louth Township xa		Lucan 614		Lynden xa P.V.		Markham xa 941		Merritton 2,480
1920	1921	1920	1921	1920	1921	1920	1921	1921
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
.....	.....	1,854.20	2,343.88	897.94	1,191.73	1,735.33	3,263.60	6,010.43
.....	.....	885.18	1,025.25	435.63	478.11	790.25	1,303.84	1,238.88
.....	.....	6,606.32	7,368.90	3,408.62	3,583.76	489.44	2,260.71	3,203.78
.....	.....	.....	.....	.....	.....	88.35	327.96	.....
.....	.....	928.68	951.96	472.50	446.75	1,395.36	2,093.00	2,220.00
** 608.61	** 728.10	64.50	73.02	.....	.....	.....	.....	.....
.....	.....	37.82	.....	.....	.....	.....	.....	.....
608.61	728.10	10,376.70	11,763.01	5,214.69	5,700.35	4,498.73	9,249.11	12,653.09
.....
**	**	5,577.59	6,424.35	3,794.56	4,362.89	1,656.78	3,139.96	3,052.27
.....
215.85	521.14	1,089.56	722.68	12.83	43.44	446.30	1,047.84	3,581.58
.....
.....	.....	78.87	182.13	17.34	27.14	64.11	149.42	611.50
.....
123.50	76.39	672.96	619.95	124.37	127.24	314.88	470.47	1,125.07
.....	.....	.....	.....	.....	.....	.....	.....	250.00
428.12	443.52	711.25	347.16	378.63	261.65	665.28	696.19	203.78
*	50.89	*	356.94	*	81.11	*	600.18	543.11
767.47	1,091.94	8,130.23	8,653.21	4,327.73	4,903.47	3,147.35	6,104.06	9,367.31
.....	.....	2,246.47	3,109.80	886.96	796.88	1,351.38	3,145.05	3,285.78
158.86	363.84	.....	.....	.....	.....	.....	.....	.....
64.00	70.00	569.00	614.00	215.00	228.00	.....	755.00	948.00
.....	.....	1,677.47	2,495.80	671.96	568.88	1,351.38	2,390.05	2,337.78
226.86	433.84	.....	.....	.....	.....	.....	.....	.....

* Included in "Interest" in 1920.

xa Operated by Municipal Council.

** Service charge only. Energy and balance of Revenue in Port Dalhousie accounts.

STATEMENT

Comparative Detailed Operating Reports of Electric Departments of

NIAGARA SYSTEM—Continued

Municipality	Milton		Milverton		Mimico	
Population	1,800		1,029		4,187	
Year	1920	1921	1920	1921	1920	1921
EARNINGS						
	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Domestic Light.....	4,099.80	4,502.81	1,677.24	2,085.42	12,325.03	13,068.97
Commercial Light.....	2,365.05	2,531.11	1,494.72	1,688.69	1,305.90	2,008.37
Commercial Power.....	15,142.22	16,596.71	8,687.03	8,118.27	1,717.06	1,827.82
Municipal Power.....				89.55	2,179.24	1,995.76
Street Light.....	1,906.45	1,839.76	1,105.20	1,020.84	1,724.32	2,048.10
Rural.....						
Miscellaneous.....	888.15	1,243.80				138.62
Total.....	24,401.67	26,714.19	12,964.19	13,002.77	19,251.55	21,087.64
EXPENSES						
Power Purchased.....	17,960.50	18,846.46	9,395.97	8,748.51	6,716.60	9,185.53
Sub-Station Operation.....						
Sub-Station Maintenance.....						
Distribution System, Operation and Maintenance....	1,733.43	974.96	235.65	379.05	2,631.22	3,204.25
Line Transformer Maintenance.....						
Meter Maintenance.....						
Consumers' Premises Exp....						
Street Light Operation and Maintenance.....	220.01	258.51	104.59	206.84	567.52	667.23
Promotion of Business.....						
Billing and Collecting.....						
Gen. Office—Salaries and Exp.	1,007.08	1,353.05	792.77	720.98	2,461.22	2,385.31
Undistributed Expenses.....						
Miscellaneous Expenses.....						
Interest.....	2,178.35	492.99	662.68	244.86	1,944.99	1,206.09
Sinking Fund and Principal Payments on Debentures...	*	893.64	*	356.15	*	886.64
Total Expenses.....	23,099.37	22,819.61	11,191.66	10,656.39	14,321.55	17,535.05
Gross Surplus.....	1,302.30	3,894.58	1,772.53	2,346.38	4,930.00	3,552.59
Gross Loss.....						
Depreciation Charge.....	1,428.00	1,496.00	527.00	628.00	2,183.00	2,461.00
Net Surplus.....		2,398.58	1,245.53	1,718.38	2,747.00	1,091.59
Net Loss.....	125.70					

* Included in "Interest" in 1920.

“C”—Continued

Hydro Municipalities for the years ending Dec. 31st, 1920 and 1921

Mitchell xb 1,686		Moorefield xa P.V.		Mount Brydges xa P.V.		Newbury a 283	New Hamburg 1401	
1920	1921	1920	1921	1920	1921	1921	1920	1921
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
4,183.47	4,660.66	498.92	637.19	1,130.15	1,398.23	358.18	2,987.68	3,570.31
3,588.97	3,101.46	431.99	540.33	434.78	457.24	306.52	1,615.92	1,751.04
5,148.65	5,542.41	1,262.83	1,285.41	707.73	836.67	511.05	5,613.62	5,253.46
650.00								
1,920.00	1,980.00	475.00	475.00	532.00	532.00	624.97	1,827.00	1,967.00
717.40	711.65			15.12			1,071.69	936.64
16,208.49	15,996.18	2,668.74	2,937.93	2,819.78	3,224.15	1,800.72	13,115.91	13,478.44
6,048.86	6,060.55	1,730.12	1,868.94	1,500.93	1,863.09	863.59	6,737.44	7,644.94
238.70	136.30							
741.30	396.75	1.90	9.50	8.18	117.88		1,344.71	1,637.83
166.25	136.48	68.02	100.57	19.38	48.00		353.68	393.28
1,987.38	2,067.08	69.80	86.67	138.50	150.32	85.72	919.85	1,120.88
1,788.30	63.14	391.99	234.88	272.43	167.21	340.72	1,088.73	678.21
*	1,696.40	*	148.60	*	80.34	314.35	*	441.31
10,970.79	10,556.70	2,261.83	2,449.16	1,939.42	2,426.84	1,604.38	10,444.41	11,915.65
5,237.7	5,439.48	406.91	488.77	880.36	797.31	196.34	2,671.50	1,562.79
1,784.00	2,069.00	179.00	187.00	207.00	222.00		1,155.00	1,306.00
3,453.70	3,370.48	227.91	301.77	673.36	575.31	196.34	1,516.50	256.79

a Two months' operation.

* Included in "Interest" in 1920.

xa Operated by Municipal Council.

xb Hydro and Water Departments under one Commission.

STATEMENT

Comparative Detailed Operating Reports of Electric Departments of

NIAGARA
SYSTEM—Continued

Municipality Population	New Toronto xb 2,850		Niagara Falls 14,805		Niagara-on-the-Lake 1,863	
Year	1920	1921	1920	1921	1920	1921
EARNINGS						
	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Domestic Light.....	6,602.26	6,731.42	46,839.29	59,722.54	5,544.75	5,847.10
Commercial Light.....	2,979.37	3,798.61	15,366.86	21,208.01	2,796.38	3,291.89
Commercial Power.....	87,926.78	60,083.39	23,292.38	27,427.69	1,301.68	910.89
Municipal Power.....	9,345.35	6,211.02	5,447.57	5,792.55		1,634.01
Street Light.....	956.88	1,126.98	12,636.48	13,483.59	2,393.75	2,798.75
Rural.....						
Miscellaneous.....	607.51	890.08				
Total.....	108,418.15	78,841.50	103,582.58	127,634.38	12,036.56	14,482.64
EXPENSES						
Power Purchased.....	84,628.66	68,979.18	38,754.10	50,073.13	4,257.81	3,407.88
Sub-Station Operation.....			5,365.89	5,960.90		
Sub-Station Maintenance.....						
Distribution System, Operation and Maintenance.....	4,369.70	4,559.34	5,823.15	12,235.05	2,306.03	1,975.25
Line Transformer Maintenance.....			170.15	754.50		
Meter Maintenance.....			2,225.32	2,354.79		
Consumers' Premises Exp.....						
Street Light Operation and Maintenance.....	161.77	742.66	2,633.93	7,822.97	264.01	624.80
Promotion of Business.....						
Billing and Collecting.....			4,242.79	3,745.53		
Gen. Office—Salaries and Exp.....	2,956.83	3,175.68	5,709.81	5,670.01	1,087.07	1,231.28
Undistributed Expenses.....			3,918.95	4,430.58		
Miscellaneous Expenses.....						
Interest.....			14,550.43	7,362.84	1,522.54	486.60
Sinking Fund and Principal Payments on Debentures.....		169.43	*	10,351.55	*	1,031.91
Total Expenses.....	92,116.96	77,626.29	83,394.52	110,761.85	9,437.46	8,757.72
Gross Surplus.....	16,301.19	1,215.21	20,188.06	16,872.53	2,599.10	5,724.92
Gross Loss.....						
Depreciation Charge.....	1,905.00	2,354.00	10,164.50	12,539.50	420.00	708.00
Net Surplus.....	14,396.19		10,023.56	4,333.03	2,179.10	5,016.92
Net Loss.....		1,138.79				

* Included in "Interest" in 1920.

xb Hydro and Water Departments under one Commission.

"C"—Continued

Hydro Municipalities for the years ending Dec. 31st, 1920 and 1921

Norwich xb 1,237		Oil Springs 443		Otterville xa P.V.		Palmerston xb 1,850		Paris 4,346	
1920	1921	1920	1921	1920	1921	1920	1921	1920	1921
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
4,136.42	4,824.49	366.49	701.04	1,156.08	1,421.89	4,283.77	5,035.03	7,696.27	9,368.93
1,915.42	2,235.71	319.75	503.46	648.41	760.53	4,036.64	4,736.84	4,411.23	4,532.48
2,000.38	1,935.35	5,684.03	6,970.28	1,770.64	1,401.36	2,333.25	3,504.55	16,414.88	15,619.82
902.09	1,087.64					901.85	1,077.14	1,225.00	1,225.00
1,641.00	1,667.26	740.04	496.65	342.00	324.00	1,631.25	1,740.00	4,642.00	4,515.00
9,794.89	10,764.22								
40.57			369.40			1,126.84	1,412.39		
20,430.77	22,514.67	7,110.31	9,040.83	3,917.13	3,907.78	14,313.60	17,505.95	34,389.38	35,261.23
9,957.83	8,950.13	4,206.09	5,245.21	1,482.04	1,661.26	5,477.12	6,845.88	13,643.00	15,186.57
								1,323.71	1,397.27
1,481.15	1,513.13	310.30	626.85	36.24	59.77	477.61	461.42	3,371.11	2,327.29
123.63	346.74							526.44	134.12
285.56	209.61	20.64	58.31		21.29	319.27	191.45	596.31	769.98
								431.49	470.00
988.84	1,296.95	268.22	182.79	169.94	271.95	1,179.90	1,181.06	887.19	1,118.56
	99.00							464.90	436.32
1,648.89	4,904.61								
790.30	328.90	996.83	597.79	375.89	139.74	2,040.43	823.55	6,247.88	2,021.32
*	314.80	*	343.20	*	163.70	*	1,194.45	*	4,374.73
15,276.20	17,963.87	5,802.08	7,054.15	2,064.11	2,317.71	9,494.33	10,697.81	27,492.03	28,236.16
5,154.57	4,550.80	1,308.23	1,986.68	1,853.02	1,590.07	4,819.27	6,908.14	6,897.35	7,025.07
2,712.00	2,970.00	443.00	628.00	263.00	286.00	889.00	1,015.00	3,676.00	4,178.00
2,442.57	1,580.80	865.23	1,358.68	1,590.02	1,304.07	3,930.27	5,793.14	3,221.35	2,847.07

* Included in "Interest" in 1920.

xa Operated by Municipal Council.

xb Hydro and Water Departments under one Commission.

STATEMENT

Comparative Detailed Operating Reports of Electric Departments of

NIAGARA SYSTEM—Continued

Municipality Population	Parkhill 1,194		Petrolia 2,964		Plattsville ^{xa} P.V.	
Year	1920	1921	1920	1921	1920	1921
EARNINGS						
	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Domestic Light.....	1,530.39	3,049.70	6,034.68	7,786.04	969.31	1,066.62
Commercial Light.....	1,106.09	2,243.54	5,447.61	6,246.63	873.81	706.15
Commercial Power.....		617.93	19,193.71	21,483.70	3,155.32	302.26
Municipal Power.....	110.15	568.42				
Street Light.....	1,452.50	2,490.00	3,442.83	3,493.36	576.00	555.00
Rural.....						
Miscellaneous.....			2,444.19	847.25	27.15	3.70
Total.....	4,199.13	8,969.59	36,563.02	39,856.98	5,601.59	2,633.73
EXPENSES						
Power Purchased.....	1,948.86	3,735.92	14,819.20	18,139.05	3,704.74	2,394.50
Sub-Station Operation.....						
Sub-Station Maintenance.....				225.35		
Distribution System, Operation and Maintenance.....	7.50	121.57	1,927.96	1,148.57	166.00	127.84
Line Transformer Maintenance.....			302.15	502.72		
Meter Maintenance.....			189.49	165.28		
Consumers' Premises Exp.....						
Street Light Operation and Maintenance.....	90.65	143.62	42.07	323.87	32.00	65.26
Promotion of Business.....						
Billing and Collecting.....						
Gen. Office—Salaries and Exp.....	257.40	350.60	3,534.97	3,846.35	170.65	157.29
Undistributed Expenses.....			1,282.61	1,337.70		
Miscellaneous Expenses.....						
Interest.....	687.35	1,105.49	3,873.05	2,622.04	366.35	211.24
Sinking Fund and Principal Payments on Debentures.....	*	366.61	*	1,146.32	*	105.63
Total Expenses.....	2,991.76	5,823.81	25,971.50	29,457.25	4,439.74	3,061.76
Gross Surplus.....	1,207.37	3,145.78	10,591.52	10,399.73	1,161.85	
Gross Loss.....						428.03
Depreciation Charge.....		670.00	2,414.00	2,808.00	221.00	244.00
Net Surplus.....	1,207.37	2,475.78	8,177.52	7,591.73	940.85	
Net Loss.....						672.03

* Included in "Interest" in 1920.
^{xa} Operated by Municipal Council.

“ C ”—Continued

Hydro Municipalities for the years ending Dec. 31st, 1920 and 1921

Port Colborne 2,956		Port Credit xa 1,044		Port Dalhousie 1,565		Port Stanley xa 797		Preston xb 5,355	
1920	1921	1920	1921	1920	1921	1920	1921	1920	1921
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
4,301.69	8,220.47	3,173.10	3,878.10	4,055.23	5,134.11	5,003.83	6,558.51	11,667.41	15,234.56
3,082.14	5,125.80	1,164.86	1,479.06	1,059.28	1,018.97	1,696.00	1,608.99	7,902.05	8,008.17
2,718.09	3,564.43	406.02	1,536.81	1,234.39	1,054.38	4,936.32	4,643.48	29,115.21	31,385.77
	816.75					387.95	700.55	780.00	780.00
1,200.00	1,731.75	1,210.00	1,100.00	1,064.00	1,442.00	1,677.00	1,729.05	3,290.23	3,307.32
	822.25					411.27		3,569.50	
								3.40	200.78
1,301.92	20,281.45	5,953.98	7,993.97	7,412.90	8,649.46	14,112.37	15,240.58	56,327.80	58,916.60
3,860.24	6,724.89	2,135.05	3,348.13	2,824.98	2,908.23	7,065.21	8,105.86	30,575.23	35,661.24
								3,686.28	4,605.57
								154.25	521.83
1,369.03	1,224.60	457.80	398.18	1,862.20	2,384.22	2,298.49	1,046.04	2,973.90	3,191.53
								153.57	180.15
								366.72	181.72
								57.07	
62.65		137.78	204.28	177.11	159.77	165.61	500.26	257.46	342.60
									39.78
								1,805.07	2,001.82
1,637.85	3,511.71	847.76	850.56	436.43	794.30	2,268.90	2,239.22	2,027.01	2,594.05
							47.85	1,267.28	2,008.63
3,395.63	2,382.60	493.23	217.11	1,329.35	675.42	776.95	582.34	7,591.82	3,309.31
*	1,210.27	*	262.58	*	464.46	*	457.37	*	4,354.12
10,325.40	15,054.07	4,071.62	5,280.84	6,630.07	7,386.40	12,575.16	12,978.94	50,915.66	58,992.35
976.52	5,227.38	1,882.36	2,713.13	782.83	1,263.06	1,537.21	2,261.64	5,412.14	
									75.75
	1,892.00	674.00	765.94	613.00	649.00	969.00	1,157.00	5,390.00	5,452.00
976.52	3,335.38	1,208.36	1,947.19	169.83	614.06	568.21	1,104.64	22.14	
									5,527.75

* Included in "Interest" in 1920.
xa Operated by Municipal Council.
xb Hydro and Water Departments under one Commission.

STATEMENT
Comparative Detailed Operating Reports of Electric Departments of

NIAGARA
SYSTEM—Continued

Municipality Population	Princeton xa P.V.		Queenston xa P.V. a	Ridgetown xb 2,256	
Year	1920	1921	1921	1920	1921
EARNINGS			a		
	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Domestic Light.....	1,104.05	1,223.37	468.56	4,054.63	4,524.10
Commercial Light.....	339.38	393.41	90.49	3,474.32	3,401.55
Commercial Power.....			433.50	4,482.28	5,385.74
Municipal Power.....				767.03	815.15
Street Light.....	420.00	400.00	406.00	2,511.46	2,371.59
Rural.....					
Miscellaneous.....				611.41	840.83
Total.....	1,863.43	2,016.78	1,398.55	15,901.13	17,338.96
EXPENSES					
Power Purchased.....	1,140.19	1,543.22	413.07	6,591.24	8,006.37
Sub-Station Operation.....					
Sub-Station Maintenance.....					
Distribution System, Opera- tion and Maintenance.....	58.85	60.23	9.00	770.63	1,891.98
Line Transformer Mainten'ce.....					
Meter Maintenance.....					
Consumers' Premises Exp.....					
Street Light Operation and Maintenance.....	19.00	18.99	3.00	439.31	245.32
Promotion of Business.....					
Billing and Collecting.....					
Gen. Office—Salaries and Exp.....	75.27	124.71	226.65	1,088.07	885.39
Undistributed Expenses.....					
Miscellaneous Expenses.....					
Interest.....	288.01	178.37	172.20	1,506.78	477.76
Sinking Fund and Principal Payments on Debentures...	*	71.61		*	896.68
Total Expenses.....	1,581.32	1,997.13	823.92	10,396.03	12,403.50
Gross Surplus.....	282.11	19.65	574.63	5,505.10	4,935.46
Gross Loss.....					
Depreciation Charge.....	139.00	144.00		940.00	1,043.00
Net Surplus.....	143.11		574.63	4,565.10	3,892.46
Net Loss.....		124.35			

a Six months' operation.
* Included in "Interest" in 1920.
xa Operated by Municipal Council.
xb Hydro and Water Departments under one Commission.

“C”—Continued

Hydro Municipalities for the years ending Dec. 31st, 1920 and 1921

Rockwood xa P.V.		Rodney 676		Sarnia 13,870		Scarboro Twp. xb		Seaforth 1,981	
1920	1921	1920	1921	1920	1921	1920	1921	1920	1921
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
1,382.39	1,799.39	1,516.38	1,849.15	44,174.44	51,857.64	9,936.12	13,932.01	4,606.78	5,870.40
408.73	584.02	1,373.38	1,548.45	28,041.43	29,269.89	.....	943.89	3,764.88	3,610.84
1,310.28	2,056.68	1,506.77	1,427.43	100,632.53	90,166.93	3,083.31	3,920.18	9,860.95	9,993.15
586.02	708.21	1,254.00	1,187.50	13,412.80	12,717.98	1,656.50	1,978.98	1,718.47	1,688.00
.....	.....	.....	.....	6,689.49	9,410.96	.....	.....	.....	.....
.....	.....	1.59	20.96	3,396.42	4,155.41	.....	.....	438.07	222.00
3,687.42	5,148.30	5,652.12	6,033.49	196,346.81	197,578.81	14,675.93	22,774.16	20,389.15	21,384.39
2,315.39	2,982.79	2,379.44	2,522.47	85,966.39	86,888.58	3,722.74	5,749.72	12,783.27	13,632.26
.....	.....	.....	.....	5,378.50	6,201.47	.....	.....	.....	.....
.....	.....	.....	.....	184.44	454.50	.....	.....	.....	.....
58.03	102.33	180.74	193.72	3,537.70	4,569.88	1,731.58	2,475.73	1,828.12	1,769.61
.....	.....	.....	.....	977.20	1,534.22	.....	.....	.....	.....
.....	.....	.....	.....	379.35	330.15	.....	.....	.....	.....
17.38	46.98	68.17	165.61	2,380.95	4,236.01	164.26	473.03	247.37	261.02
.....	.....	.....	.....	3,105.75	3,939.02	.....	.....	.....	.....
408.99	305.40	347.93	341.30	7,036.17	7,554.99	1,517.22	1,671.96	815.09	972.79
.....	.....	.....	.....	12,408.66	6,643.92	.....	.....	.....	.....
342.71	342.65	572.99	385.76	19,961.44	15,186.22	5,284.95	4,652.00	1,108.14	418.17
.....	.....	*	145.36	*	9,357.95	*	1,193.73	*	634.44
3,142.50	3,780.15	3,549.27	3,754.22	141,316.55	148,465.39	12,420.75	16,216.17	16,781.99	17,688.29
544.92	1,368.15	2,102.85	2,279.27	55,030.26	49,113.42	2,255.19	4,557.99	3,607.16	3,696.10
.....
376.00	410.00	397.00	434.00	10,141.00	12,937.00	2,394.00	2,995.00	1,963.00	2,178.00
168.92	958.15	1,705.85	1,845.27	44,889.26	36,176.42	.....	1,562.99	1,644.16	1,518.10
.....	.....	.....	.....	.....	.....	138.82	.....	.....	.....

* Included in “Interest” in 1920.

xa Operated by Municipal Council.

xb Hydro and Water Departments under one Commission.

STATEMENT

Comparative Detailed Operating Reports of Electric Departments of

NIAGARA SYSTEM—Continued

Municipality	Simcoe		Springfield		St. Catharines	
Population	3,946		470		19,862	
Year	1920	1921	1920	1921	1920	1921
EARNINGS						
	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Domestic Light.....	2,960.86	3,446.47	961.07	1,110.81	46,123.30	55,560.41
Commercial Light.....	5,036.58	4,967.07	697.17	574.12	8,930.44	10,321.67
Commercial Power.....	2,310.35	3,382.32	648.72	528.69	60,203.87	54,947.24
Municipal Power.....	546.55	748.07				
Street Light.....	3,807.51	3,266.32	800.00	800.00	14,441.58	15,135.22
Rural.....			365.51	44.64		
Miscellaneous.....					1,675.45	1,561.06
Total.....	14,661.85	15,810.25	3,472.47	3,058.26	131,374.64	137,525.60
EXPENSES						
Power Purchased.....	4,416.40	7,775.63	1,814.34	1,908.46	54,851.62	49,991.59
Sub-Station Operation.....	302.40				3,389.53	3,722.55
Sub-Station Maintenance.....					97.59	1,323.65
Distribution System, Operation and Maintenance.....	1,343.54	1,494.36	102.09	75.62	5,298.18	14,662.84
Line Transformer Maintenance.....	25.95	267.70			150.28	1,516.69
Meter Maintenance.....		9.30			1,586.22	2,071.82
Consumers' Premises Exp.....						
Street Light Operation and Maintenance.....	160.48	274.51	30.91	29.67	3,236.41	4,971.80
Promotion of Business.....					2,597.44	2,502.77
Billing and Collecting.....					4,708.45	4,596.63
Gen. Office—Salaries and Exp.....	808.31	843.63	164.56	252.95	8,194.44	6,004.48
Undistributed Expenses.....					2,124.70	2,424.56
Miscellaneous Expenses.....						
Interest.....	1,552.73	1,318.11	1,022.46	235.08	15,526.58	12,733.94
Sinking Fund and Principal Payments on Debentures.....			*	483.18	*	6,233.89
Total Expenses.....	8,609.81	11,983.24	3,134.36	2,984.96	101,761.44	112,757.21
Gross Surplus.....	6,052.04	3,827.01	338.11	73.30	29,613.20	24,768.39
Gross Loss.....						
Depreciation Charge.....	1,544.00	1,824.00			12,794.00	14,403.50
Net Surplus.....	4,508.04	2,003.01	338.11	73.30	16,819.20	10,364.89
Net Loss.....						

* Included in "Interest" in 1920.

"C"—Continued

Hydro Municipalities for the years ending Dec. 31st, 1920 and 1921

St. George xa P.V.		St. Jacobs xa P.V.		St. Marys xb 4,004		St. Thomas 17,850		Stamford Twp. xa	
1920	1921	1920	1921	1920	1921	1920	1921	1920	1921
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
1,390.96	1,312.39	742.62	989.14	9,598.64	12,479.26	34,279.28	41,410.99	6,951.53	10,340.84
711.98	656.56	494.93	524.38	4,593.72	5,952.89	19,489.14	21,113.52	a	a
2,010.01	2,029.88	2,431.32	2,303.05	14,104.93	21,334.52	47,180.88	41,853.58	7,276.54	6,937.46
495.00	396.00	560.00	513.00	1,392.34	1,551.33	6,502.01	8,902.33	1,236.89	1,744.00
236.75	188.47	.....	.....	4,449.00	3,833.40	14,238.54	14,327.96	.....	.....
.....	.....	5.50	.....	246.97	814.59	4,781.17	3,361.78	.....	4.04
.....	.....	.....	.....	.....	.....	329.13	31.20	.....	.....
4,844.70	4,583.30	4,234.37	4,329.57	34,385.60	45,965.99	126,800.15	131,001.36	15,464.96	19,026.34
2,201.20	3,025.92	2,075.55	2,775.48	20,326.52	28,024.07	58,936.05	62,070.55	5,468.99	6,834.11
.....	.....	.....	.....	1,209.64	1,348.86	5,688.73	5,655.23	.....	.....
.....	.....	.....	.....	.....	119.39	128.30	645.36	.....	.....
34.44	206.55	.....	27.07	983.38	822.96	6,319.25	4,350.18	2,997.98	3,530.30
.....	.....	.....	.....	446.24	725.95	1,694.60	445.70	.....	.....
.....	.....	.....	.....	407.90	202.13	1,231.86	485.62	.....	.....
.....	.....	.....	.....	.....	.....	437.40	24.41	.....	.....
20.50	48.75	13.81	108.91	571.76	675.44	4,203.39	3,716.27	240.73	249.89
.....	.....	.....	.....	256.07	285.62	3,024.34	3,816.25	.....	.....
280.70	320.23	257.40	265.61	1,969.70	2,026.57	3,127.25	4,737.99	1,303.56	1,026.22
.....	.....	.....	.....	731.25	516.38	4,784.78	4,677.35	.....	579.50
.....	.....	.....	.....	.....	.....	.....	6,006.53	.....	.....
288.68	106.15	496.49	163.21	4,794.07	1,387.68	6,870.11	281.34	2,190.90	3,082.46
*	114.22	*	202.09	*	2,332.21	*	5,197.45	*	1,398.95
2,825.52	3,821.82	2,843.25	3,542.37	31,696.53	38,467.26	96,446.06	102,110.23	12,202.16	16,701.43
2,019.18	761.48	1,391.12	787.20	2,689.07	7,498.73	30,354.09	28,891.13	3,262.80	2,324.91
.....
260.00	281.00	259.00	256.00	3,775.00	4,264.12	12,069.00	12,282.00	1,905.50	2,237.00
1,759.18	480.48	1,132.12	531.20	.....	3,234.61	18,285.09	16,609.13	1,357.30	87.91
.....	.....	.....	.....	1,085.93	.....	.....	.....	.....	.....

* Included in "Interest" in 1920.

xa Operated by Municipal Council.

xb Hydro and Water Departments under one Commission.

a Included in Domestic Light.

STATEMENT

Comparative Detailed Operating Reports of Electric Departments of

**NIAGARA
SYSTEM—Continued**

Municipality	Stratford		Strathroy		Tavistock	
Population	xb	18,871	xb	2,654	xb	1,003
Year	1920	1921	1920	1921	1920	1921
EARNINGS						
	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Domestic Light.....	41,679.50	50,918.45	6,891.04	7,927.50	1,806.64	2,184.08
Commercial Light.....	19,050.82	19,459.85	5,037.74	5,436.85	1,015.70	1,069.87
Commercial Power.....	30,807.49	27,094.99	9,628.47	11,655.19	8,503.06	8,511.76
Municipal Power.....	4,115.58	5,941.66	1,563.96	1,490.05	90.88	82.02
Street Light.....	15,141.31	14,455.97	4,257.20	3,305.06	1,370.04	1,374.93
Rural.....	2,189.42	2,711.62				
Miscellaneous.....	555.89	751.85	2,030.72	107.93		98.58
Total.....	113,540.01	121,334.39	29,409.13	29,922.58	12,786.32	13,321.24
EXPENSES						
Power Purchased.....	48,593.60	60,191.16	12,122.08	14,031.07	8,472.75	8,885.93
Sub-Station Operation.....	3,775.06	3,840.00				
Sub-Station Maintenance.....	247.51	929.90				
Distribution System, Opera- tion and Maintenance.....	6,600.35	4,946.61	372.87	1,154.35	62.65	198.22
Line Transformer Mainten'ce.	620.80	575.39				
Meter Maintenance.....	1,191.10	573.32				
Consumers' Premises Exp.....						
Street Light Operation and Maintenance.....	4,809.61	7,207.12	481.09	1,092.33	24.18	188.53
Promotion of Business.....						
Billing and Collecting.....	2,975.40	3,535.07				
Gen. Office—Salaries and Exp.	1,636.68	1,565.83	2,937.00		569.22	596.64
Undistributed Expenses.....	3,476.40	3,592.44		3,859.33	10.14	
Miscellaneous Expenses.....						
Interest.....	17,625.66	10,676.98	3,452.49	1,561.13	31.89	
Sinking Fund and Principal Payments on Debentures..	*	4,002.36	*	1,848.01	*	109.77
Total Expenses.....	91,552.17	101,636.18	19,365.53	23,546.22	9,170.83	9,979.09
Gross Surplus.....	21,987.84	19,698.21	10,043.60	6,376.36	3,615.49	3,342.15
Gross Loss.....						
Depreciation Charge.....	11,951.00	14,275.00	2,073.00	2,500.00	469.00	515.00
Net Surplus.....	10,036.84	5,423.21	7,970.60	3,876.36	3,146.49	2,827.15
Net Loss.....						

* Included in "Interest" in 1920.

xb Hydro and Water Departments under one Commission.

“ C ”—Continued
Hydro Municipalities for the years ending Dec. 31st, 1920 and 1921

Thamesford xa P.V.		Thamesville xa P.V.		Thorndale xa P.V.		Thorold 5,514	Tilbury 1,749	
1920	1921	1920	1921	1920	1921	1921	1920	1921
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
1,030.02	1,127.26	2,293.54	2,907.81	716.05	989.21	16,763.65	2,372.09	3,279.86
980.63	1,003.40	1,783.72	2,578.52	715.49	743.97	.....	2,648.21	3,457.17
3,852.98	4,009.68	199.80	2,556.55	3,455.34	2,102.43	.....	1,711.87	4,745.94
578.00	532.67	1,200.00	1,256.85	442.00	416.00	687.50	915.00	943.75
14.24	11.12	.....	.....	.....	.....	10.43	.....	21.18
6,455.87	6,684.13	5,477.06	9,299.73	5,328.88	4,251.61	19,501.58	7,647.17	12,447.90
3,589.17	4,622.18	2,653.26	3,719.25	3,942.78	3,890.74	7,050.39	3,635.27	6,101.98
.....	.....	.....	.....	.....	.....	2,657.85	.....	.....
281.56	130.44	59.04	310.84	75.90	44.12	2,471.37	114.24	272.71
77.92	65.83	67.72	44.79	89.90	123.49	697.70	76.75	98.09
198.93	241.16	379.50	385.76	121.01	126.20	1,780.02	1,275.23	1,533.06
524.96	243.85	910.10	507.09	320.36	179.31	.....	4.38	.....
*	227.01	*	322.86	*	126.53	.....	1,246.93	896.13
4,672.54	5,530.47	4,069.62	5,290.59	4,549.95	4,490.39	.....	*	335.72
1,783.33	1,153.66	1,407.44	4,009.14	778.93	.....	14,657.33	6,352.80	9,237.69
.....	.....	.....	.....	.....	.....	4,844.25	1,294.37	3,210.21
355.00	382.00	494.00	572.00	185.00	197.00	238.78	.....	.....
1,428.33	771.66	913.44	3,437.14	593.93	.....	2,379.00	494.00	609.00
.....	.....	.....	.....	.....	.....	2,465.25	800.37	2,601.21
.....	.....	.....	.....	.....	435.78	.....	.....	.....

* Included in "Interest" in 1920.
xa Operated by Municipal Council.

STATEMENT

Comparative Detailed Operating Reports of Electric Departments of

NIAGARA SYSTEM—Continued

Municipality	Tillsonburg		Toronto	
Population	3,021		512,812	
Year	1920	1921	1920	1921
EARNINGS				
	\$ c.	\$ c.	\$ c.	\$ c.
Domestic Light.....	6,417.45	7,160.17	729,364.33	865,908.45
Commercial Light.....	6,077.79	6,679.06	533,987.42	699,144.27
Commercial Power.....	18,378.45	10,084.24	1,164,782.90	1,236,518.60
Municipal Power.....			270,979.71	359,397.30
Street Light.....	2,651.00	2,557.94	335,369.74	346,301.69
Rural.....				
Miscellaneous.....	1,220.58	393.68	56,138.59	80,847.74
Total.....	34,745.27	26,875.09	3,090,622.69	3,588,118.05
EXPENSES				
Power Purchased.....	17,481.57	13,359.45	974,827.92	1,111,019.01
Sub-Station Operation.....	1,050.76	1,153.67	100,154.93	110,425.19
Sub-Station Maintenance.....			62,283.90	59,123.32
Distribution System, Opera- tion and Maintenance.....	918.35	677.99	69,566.75	124,385.85
Line Transformer Mainten'ce.....		130.53	15,816.45	21,058.29
Meter Maintenance.....	472.73	91.45	43,855.65	39,288.75
Consumers' Premises Exp.....			99,996.09	115,953.98
Street Light Operation and Maintenance.....	297.86	238.69	84,238.51	93,621.03
Promotion of Business.....	13.61	1.20	54,557.86	68,389.07
Billing and Collecting.....	535.25	661.81	129,862.46	146,464.52
Gen. Office—Salaries and Exp.....	2,932.50	2,782.79	208,804.44	265,281.14
Undistributed Expenses.....	439.36	262.09	97,963.99	128,889.27
Miscellaneous Expenses.....				
Interest.....	2,294.46	928.00	654,745.10	451,786.07
Sinking Fund and Principal Payments on Debentures..	*	1,326.66	*	206,912.83
Total Expenses.....	26,436.45	21,614.33	2,596,674.05	2,942,598.32
Gross Surplus.....	8,308.82	5,260.76	493,948.64	645,519.73
Gross Loss.....				
Depreciation Charge.....	2,731.00	3,008.00	371,221.00	431,166.42
Net Surplus.....	5,577.82	5,252.76	122,727.64	214,353.31
Net Loss.....				

* Included in "Interest" in 1920.

xa Operated by Municipal Council.

"C"—Continued

Hydro Municipalities for the years ending Dec. 31st, 1920 and 1921

Toronto Township		Vaughan Township xi		Walkerville s 7,469		Wallaceburg xb 4,119		Wards- xa ville 215
1920	1921	1920	1921	1920	1921	1920	1921	1921
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
.....	.....	763.80	1,145.99	40,884.48	41,133.16	11,021.73	11,703.39	315.80
.....	.....	152.45	234.78	22,432.85	18,365.76	7,115.48	7,363.40	147.66
.....	.....	2,059.19	2,633.87	109,892.78	112,665.36	30,913.84	24,881.34	.....
.....	.....	.....	.....	.....	.....	1,322.65	1,312.11	.....
.....	.....	238.00	238.00	3,692.33	4,473.29	3,567.12	2,953.30	398.75
18,641.08	25,042.87	648.08	943.75	35,558.10	27,300.37	.....	.....	.....
.....	.....	.....	.....	4,990.06	1,903.75	1,001.13	.....	.....
81,641.08	25,042.87	3,861.52	5,196.39	217,450.60	205,841.71	54,941.95	48,213.54	862.21
.....
4,911.00	6,629.82	1,817.38	1,775.52	117,586.40	118,454.99	26,426.93	21,486.10	321.84
.....	.....	.....	.....	5,953.66	7,459.96	.....	105.10	.....
.....	.....	.....	.....	828.76	133.68	144.27	.....	.....
2,526.98	1,909.71	26.00	177.09	4,716.02	4,807.22	618.36	2,390.67	.....
.....	.....	.....	.....	1,065.88	2,095.27	219.12	602.02	.....
.....	.....	.....	.....	3,145.18	2,454.21	55.81	109.80	.....
.....
.....	.....	.....	33.50	2,435.42	2,187.10	1,203.13	754.11	.....
.....	.....	.....	.....	4,858.58	5,418.66	.....	.....	.....
1,152.46	1,187.97	152.70	164.11	9,409.78	11,599.59	3,425.53	4,358.89	52.89
.....	.....	.....	.....	7,094.57	6,652.52	237.55	909.41	.....
.....
3,979.26	3,914.72	2,544.48	2,352.69	13,703.57	10,957.59	4,066.90	3,155.52	65.03
*	436.55	*	233.71	*	5,372.43	*	1,403.26	.....
12,569.70	14,078.77	4,540.56	4,736.62	170,797.82	177,593.22	36,397.60	35,274.88	439.76
6,071.38	10,964.10	.....	459.77	46,652.78	28,248.49	18,544.35	12,938.66	422.45
.....	.....	679.04	.....	.....	.....	.....	.....	.....
3,864.00	4,419.00	307.00	1,234.00	9,624.00	11,946.44	2,628.00	2,784.00	.....
2,207.38	6,545.10	.....	.....	37,028.87	16,302.05	15,916.35	10,154.66	422.45
.....	.....	986.04	774.23	.....	.....	.....	.....	.....

s Includes Sandwich and Ford.

* Included in "Interest" in 1920

xa Operated by Municipal Council.

xb Hydro and Water Departments under one Commission.

xi Operated by St. Catharines.

a Eight months' operation.

STATEMENT

Comparative Detailed Operating Reports of Electric Departments of

NIAGARA SYSEYEM—Continued

Municipality	Waterdown		Waterford		Waterloo	
Population	xa	816	xa	1,083	xd	5,744
Year	1920	1921	1920	1921	1920	1921
EARNINGS						
	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Domestic Light.....	2,167.44	2,353.26	2,503.53	2,957.14	11,943.47	14,931.02
Commercial Light.....	609.00	664.53	977.72	1,135.31	5,488.04	7,125.48
Commercial Power.....	1,487.72	1,137.73	3,345.94	2,493.18	23,423.98	23,198.54
Municipal Power.....					3,587.14	3,683.87
Street Light.....	600.00	620.00	1,177.00	1,333.02	5,697.47	5,840.59
Rural.....	3,658.44	3,726.03	714.05	885.85	1,497.14	1,716.73
Miscellaneous.....			8.81	88.19	803.00	
Total.....	8,522.60	8,501.55	8,727.05	8,897.68	52,440.24	56,496.23
EXPENSES						
Power Purchased.....	3,342.48	3,971.59	3,789.51	4,374.55	24,149.70	29,065.23
Sub-Station Operation.....					2,200.08	2,211.59
Sub-Station Maintenance.....						72.86
Distribution System, Operation and Maintenance.....	230.61	260.42	294.53	245.78	2,612.99	2,178.10
Line Transformer Maintenance.....					16.14	58.04
Meter Maintenance.....					459.57	197.35
Consumers' Premises Exp.....						
Street Light Operation and Maintenance.....	42.47	137.96	260.60	288.35	2,517.10	1,858.76
Promotion of Business.....						
Billing and Collecting.....					2,034.10	1,706.41
Gen. Office—Salaries and Exp.....	688.60	674.00	589.44	590.24	5,128.21	5,078.87
Undistributed Expenses.....					559.44	312.50
Miscellaneous Expenses.....				837.58		
Interest.....	1,335.99	894.17	1,684.79		4,142.19	4,647.33
Sinking Fund and Principal Payments on Debentures.....	*	442.81	*	1,285.86	*	2,740.29
Total Expenses.....	5,640.15	6,380.95	6,618.87	7,622.36	43,819.52	50,127.33
Gross Surplus.....	2,882.45	2,120.60	2,108.18	1,275.32	8,620.72	6,368.90
Gross Loss.....						
Depreciation Charge.....	1,211.00	1,306.00	740.00	592.00	6,334.33	7,176.87
Net Surplus.....	1,671.45	814.60	1,368.18	683.32	2,286.39	
Net Loss.....						807.97

* Included in "Interest" in 1920.

xa Operated by Municipal Council.

xd Hydro, Gas and Water under one Commission.

“ C ”—Continued

Hydro Municipalities for the years ending Dec. 31st, 1920 and 1921

Watford 1,033		Welland 9,356		West Lorne xa 770		Wellesley P.V.	
1920	1921	1920	1921	1920	1921	1920	1921
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
2,332.72	2,873.44	14,065.49	18,307.67	1,286.61	1,630.54	857.83	1,065.38
2,160.32	2,620.52	5,126.13	5,955.83	1,253.45	1,356.84	524.94	568.02
2,305.80	2,808.30	55,825.21	43,112.95	4,838.27	6,008.65	4,180.31	4,003.07
1,592.94	1,638.45	5,478.50	6,061.35	1,402.50	1,378.73	732.74	741.96
		12,299.52	7,886.97				
3.69	9.27	1,936.96	1,540.82				
8,395.47	9,949.98	94,732.81	82,865.59	8,780.83	10,374.76	6,295.82	6,378.43
4,930.40	5,456.37	46,965.89	33,834.50	3,600.75	5,584.68	4,293.85	4,698.61
		3,106.40	3,320.56				
		314.43	377.91				
131.20	860.96	2,114.91	3,880.62	86.53	129.36	59.83	246.20
		655.12	480.48				
		515.42	299.60				
55	90.53	1,906.63	2,411.44	83.42	87.66	75.17	41.00
		1,214.64	963.84				
463.76	492.82	7,023.13	6,228.91	478.39	652.51	395.49	485.75
		4,721.16	3,075.47				
973.76	560.21	15,873.25	12,696.33	601.68	380.19	572.46	326.49
*	374.83	*	4,122.33	*	127.76	*	242.82
6,499.67	7,835.72	84,410.98	71,691.99	4,850.77	6,962.16	5,396.80	6,040.87
1,895.80	2,114.26	10,321.83	11,173.60	3,930.06	3,412.60	899.02	337.56
514.00	575.00	9,736.00	8,555.00	392.00	474.00	326.00	330.00
1,381.80	1,539.26	585.83	2,618.60	3,538.06	2,938.60	573.02	7.56

* Included in "Interest" in 1920.
xa Operated by Municipal Council.

STATEMENT

Comparative Detailed Operating Reports of Electric Departments of

NIAGARA SYSTEM—Continued

Municipality Population	Weston xb 3,104		Windsor 37,120		Woodbridge 661	
Year	1920	1921	1920	1921	1920	1921
EARNINGS						
	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Domestic Light.....	9,047.65	10,086.61	144,249.01	181,822.04	1,053.78	1,296.84
Commercial Light.....	2,125.38	2,183.96	75,244.64	99,612.26	672.50	748.34
Commercial Power.....	23,289.63	17,419.31	151,986.78	133,944.32	5,716.29	3,411.24
Municipal Power.....	1,820.38	1,638.35	4,941.73	12,780.61		
Street Light.....	2,680.00	3,068.22	36,425.54	39,245.57	887.00	916.00
Rural.....	1,106.63	1,396.86	21,600.49	46,458.86	94.71	66.93
Miscellaneous.....	47.80	275.22	8,306.63			5.69
Total.....	40,117.47	36,068.53	442,754.82	513,863.66	8,424.28	6,445.04
EXPENSES						
Power Purchased.....	22,091.04	22,696.37	191,423.61	203,714.88	4,790.94	3,802.81
Sub-Station Operation.....			26,352.93	33,685.88		
Sub-Station Maintenance.....			9,410.93	6,695.91		
Distribution System, Operation and Maintenance....	2,850.71	3,667.95	12,253.28	28,671.51	140.14	186.22
Line Transformer Maintenance.....			5,717.82	9,077.10		
Meter Maintenance.....			3,241.48	4,762.13		
Consumers' Premises Exp.....			2,799.23	3,729.92		
Street Light Operation and Maintenance.....	253.50	312.61	14,714.43	26,591.19	79.23	128.25
Promotion of Business.....			397.11	210.96		
Billing and Collecting.....			13,311.57	18,122.37		
Gen. Office—Salaries and Exp.....	2,072.48	2,371.63	14,528.05	18,514.01	263.22	385.34
Undistributed Expenses.....	73.00	73.00	14,328.74	23,639.73		
Miscellaneous Expenses.....						
Interest.....	1,061.96	858.50	37,703.79	31,057.60	480.50	263.64
Sinking Fund and Principal Payments on Debentures..	*	385.27	*	20,873.74	*	153.37
Total Expenses.....	28,402.69	30,365.33	346,183.00	429,346.93	5,754.03	4,919.63
Gross Surplus.....	11,714.78	5,703.20	96,571.82	84,516.73	2,670.25	1,525.41
Gross Loss.....						
Depreciation Charge.....	3,056.00	3,812.00	15,771.00	23,440.00	630.00	598.00
Net Surplus.....	8,658.78	1,891.20	80,800.82	61,076.73	2,040.25	927.41
Net Loss.....						

* Included in "Interest" in 1920.

xb Hydro and Water Departments under one Commission.

a Municipal Railway.

“C”—Continued

Hydro Municipalities for the years ending Dec. 31st, 1920 and 1921

xb	Woodstock 10,333		Wyoming xa 475		Zurich xa P.V.		NIAGARA SYSTEM SUMMARY	
	1920	1921	1920	1921	1920	1921	1920	1921
	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
	22,542.71	25,130.13	1,116.01	1,550.65	881.70	954.55	2,070,212.09	2,536,647.29
	14,832.22	15,988.83	953.51	1,226.83	991.52	1,009.12	1,174,845.34	1,449,932.22
	23,954.56	25,836.54	665.29	747.17	2,773.80	2,343.29	3,163,337.61	3,185,841.06
	3,093.93	2,518.93					456,906.43	551,937.51
	7,241.75	6,772.97	960.00	960.00	1,080.00	975.00	800,314.08	824,086.75
	352.91						165,806.43	141,205.05
	1,788.23	1,646.38					151,183.06	214,769.34
	73,806.31	77,893.78	3,694.81	4,484.65	5,727.02	5,281.96	7,982,614.04	8,904,419.22
	34,269.52	40,036.09	1,957.86	2,091.69	3,424.54	4,001.87	3,344,747.49	3,739,893.93
	3,634.16	278.78					232,866.51	265,965.88
	154.40	2,467.95					90,114.27	88,729.52
	3,871.57	2,576.12	174.64	126.21	9.70	18.33	255,115.28	365,628.16
	47.40						40,678.80	58,093.74
	411.33	982.17					106,027.03	97,677.50
							116,283.52	134,845.71
	1,196.51	1,327.82	69.44	231.64	81.79	91.38	184,158.15	236,217.38
							68,596.91	90,627.02
	3,388.89	2,885.06					250,247.35	274,319.23
	4,339.10	4,026.69	155.48	285.27	312.20	311.22	461,113.40	549,415.22
	1,333.50	1,698.09	21.48				220,273.30	270,713.38
							6,083.04	8,512.95
	5,075.78	2,848.84	641.39	550.71	312.11	141.04	1,184,802.94	820,414.08
	*	1,590.60	*	370.98	*	91.79	*	430,364.84
	57,722.16	60,718.21	3,020.29	3,656.50	4,140.34	4,655.63	6,561,107.99	7,431,418.54
	16,084.15	17,175.57	674.52	828.15	1,586.68	626.33	1,421,506.05	1,473,000.68
	8,131.00	8,752.00	344.00	400.00	262.00	276.00	761,504.75	892,890.83
	7,953.15	8,423.57	330.52	428.15	1,324.68	350.33	660,001.30	580,109.85

* Included in "Interest" in 1920.

xa Operated by Municipal Council.

xb Hydro and Water Departments under one Commission.

STATEMENT

Comparative Detailed Operating Reports of Electric Departments of

SEVERN SYSTEM

Municipality Population	Alliston 1,301		Barrie xb 6,876		Bradford 907	
Year	1920	1921	1920	1921	1920	1921
EARNINGS						
	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Domestic Light.....	4,255.43	5,253.63	14,459.88	16,926.24	1,727.98	2,522.29
Commercial Light.....	3,055.99	3,375.50	7,245.01	8,227.70	1,350.90	1,822.52
Commercial Power.....	4,384.69	2,982.43	9,579.73	8,665.13	428.61	1,310.02
Municipal Power.....	539.64	584.76	1,818.93	1,930.02		
Street Light.....	1,888.02	1,998.00	4,068.80	3,919.31	1,462.00	1,481.00
Rural.....						
Miscellaneous.....			2,928.21	5,252.73	2.00	
Total.....	14,123.77	14,194.32	40,100.56	44,921.13	4,971.49	7,136.53
EXPENSES						
Power Purchased.....	8,812.29	8,947.66	19,973.83	27,450.40	5,441.62	6,054.39
Sub-Station Operation.....						
Sub-Station Maintenance.....						
Distribution System, Opera- tion and Maintenance.....	661.10	893.86	711.22	1,011.43	124.68	219.85
Line Transformer Mainten'ce.....				244.42		
Meter Maintenance.....			49.99	771.14		
Consumers' Premises Exp.....						
Street Light Operation and Maintenance.....	321.34	239.18	1,000.31	1,250.49	264.79	143.83
Promotion of Business.....						
Billing and Collecting.....						
Gen. Office—Salaries and Exp.....	800.48	895.88	3,249.80	3,519.03	411.34	412.03
Undistributed Expenses.....			776.57	1,071.89		
Miscellaneous Expenses.....						
Interest.....	2,968.48	2,978.74	1,572.94	1,488.40	1,546.43	1,517.19
Sinking Fund and Principal Payments on Debentures.....	*	665.04	1,903.99	1,988.53	*	204.85
Total Expenses.....	13,563.69	14,620.36	29,238.65	38,795.73	7,788.86	8,552.14
Gross Surplus.....	560.08		10,861.91	6,125.40		
Gross Loss.....		426.04			2,817.37	1,415.61
Depreciation Charge.....	1,299.00	1,364.00	4,233.50	4,486.00	724.00	765.00
Net Surplus.....			6,628.41	1,639.40		
Net Loss.....	738.92	1,790.04			3,541.37	2,180.61

* Included in "Interest" in 1920.

xb] Hydro and Water Departments under one Commission.

“ C ”—Continued

Hydro Municipalities for the years ending Dec. 31st, 1920 and 1921

Beeton 580		Coldwater 663		Collingwood 6,016		Cookstown xa P.V.		Creemore xa 603	
1920	1921	1920	1921	1920	1921	1920	1921	1920	1921
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
1,284.55	1,753.33	1,415.14	1,705.16	13,999.34	16,194.56	1,388.97	1,797.47	1,448.31	1,808.03
906.28	1,242.18	1,054.87	1,306.92	7,121.77	8,511.75	468.63	705.24	1,413.24	1,683.94
3,740.12	4,507.27	1,548.42	2,079.61	24,610.88	16,818.64	1,669.48	1,890.50	1,516.26	1,422.65
				1,481.36	1,891.99				
1,240.00	1,240.00	580.00	616.00	3,974.17	3,999.16	1,050.00	1,123.40	880.08	823.69
				138.52	69.72				
7,170.95	8,742.78	4,598.43	5,707.69	51,326.04	47,485.82	4,577.08	5,516.61	5,257.89	5,738.31
7,055.91	7,233.30	2,266.49	3,087.48	47,258.00	44,861.16	3,204.59	3,317.35	3,185.30	3,494.32
				3.03	3.40				
					4.95				
	48.07	460.02	477.34	1,204.86	1,069.38	79.41	225.27	292.69	214.14
				17.43	7.96				
				6.47	78.79				
62.24	100.44	74.22	28.12	404.18	352.93	98.62	229.65	91.69	78.40
				2,105.50	1,953.40				
351.60	319.11	219.47	161.71	2,791.35	3,336.97	209.92	157.02	120.26	134.06
				190.07	459.57				
1,166.71	984.94	632.47	459.59	1,665.66	510.08	1,020.10	893.16	474.24	242.05
*	248.91	*	140.58	*	1,575.38	*	132.92	*	250.64
8,636.46	8,934.77	3,652.67	4,384.82	55,646.55	54,213.97	4,612.27	4,955.27	4,164.18	4,413.61
		945.76	1,322.87				561.34	1,093.71	1,324.70
1,465.51	191.99			4,320.51	6,728.15	35.56			
577.00	604.00	497.00	518.00	3,750.00	3,924.00	486.00	517.00	358.00	387.00
		448.76	804.87				44.34	735.71	937.70
2,042.51	795.99			8,070.51	10,652.15	521.56			

* Included in "Interest" in 1920.
xa Operated by Municipal Council.

STATEMENT

Comparative Detailed Operating Reports of Electric Departments of

SEVERN
SYSTEM—Continued

Municipality Population	Elmvale xa P.V.		Midland xb 7,129		Penetang xb 3,896	
	1920	1921	1920	1921	1920	1921
EARNINGS						
	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Domestic Light.....	1,313.94	1,491.09	16,362.07	20,140.29	4,971.37	6,714.63
Commercial Light.....	1,120.45	1,501.27	7,435.12	8,618.18	3,340.35	3,798.95
Commercial Power.....	3,722.19	4,239.56	18,060.43	20,964.55	20,541.30	17,779.06
Municipal Power.....			1,500.00	1,500.00	1,623.37	1,866.14
Street Light.....	683.50	756.00	4,401.00	4,506.00	2,390.50	2,566.00
Rural.....						
Miscellaneous.....			2,870.76	367.00	96.58	19.85
Total.....	6,840.08	7,987.92	50,629.38	56,096.02	32,963.47	32,744.63
EXPENSES						
Power Purchased.....	4,379.26	5,730.10	31,831.55	33,310.92	23,367.70	22,367.18
Sub-Station Operation.....			1,184.21	1,767.89	1,063.00	1,110.75
Sub-Station Maintenance.....			131.43	218.63		
Distribution System, Operation and Maintenance....	504.21	458.61	1,065.30	1,528.01	228.49	381.19
Line Transformer Mainten'ce.....			118.95	87.58	345.46	258.71
Meter Maintenance.....			214.97	142.40	65.54	79.93
Consumers' Premises Exp.....						
Street Light Operation and Maintenance.....	66.01	69.81	321.73	453.37	73.00	418.68
Promotion of Business.....						
Billing and Collecting.....			581.02	532.10	255.85	254.00
Gen. Office—Salaries and Exp.....	388.12	297.32	3,778.89	3,287.55	2,051.03	2,077.72
Undistributed Expenses.....			312.90	480.99		
Miscellaneous Expenses.....						
Interest.....	445.94	262.59	4,549.12	4,643.45	2,408.44	1,617.65
Sinking Fund and Principal Payments on Debentures..	*	155.66	*	2,554.45	*	866.05
Total Expenses.....	5,783.54	6,974.09	44,090.07	49,007.34	29,858.51	29,431.86
Gross Surplus.....	1,056.54	1,013.83	6,539.31	7,088.68	3,104.96	3,312.77
Gross Loss.....						
Depreciation Charge.....	523.00	547.00	5,826.25	5,664.00	2,764.00	2,968.00
Net Surplus.....	533.54	466.83	713.06	1,424.68	340.96	344.77
Net Loss.....						

* Included in "Interest" in 1920.

xa Operated by Municipal Council.

xb Hydro and Water Departments under one Commission.

"C"—Continued

Hydro Municipalities for the years ending Dec. 31st, 1920 and 1921

Port McNicoll xa 614		Stayner 927		Thornton xa P.V.		Tottenham xa 452		Victoria Harbor xa 1,462	
1920	1921	1920	1921	1920	1921	1920	1921	1920	1921
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
1,514.24	1,879.68	1,896.77	2,534.35	564.08	688.24	1,528.86	2,181.09	1,222.63	1,593.60
566.00	692.07	1,683.99	2,301.30	198.24	306.20	1,011.40	1,335.34	1,470.72	1,607.34
87.40	109.77	3,826.07	3,006.88	.....	.....	.....	146.42	.....	.....
456.00	570.00	1,008.00	1,008.00	448.54	577.50	1,029.00	71.15 1,029.00	610.00	680.00
.....
2,623.64	3,251.52	8,414.82	8,850.53	1,210.86	1,571.94	3,569.26	4,763.00	3,303.35	3,880.94
.....
1,826.70	1,541.88	4,047.91	5,307.43	1,232.81	1,420.00	3,590.00	4,183.18	2,138.45	2,120.97
.....
156.72	131.60	394.33	494.20	3.06	16.77	248.18	289.81	310.12	358.13
.....
45.63	45.34	85.92	10.33	22.05	36.97	49.52	117.01	24.80	64.22
.....
297.33	239.97	316.10	327.62 26.73	79.30	79.12	139.20	145.21	458.87	420.98
559.91	611.91	1,249.52	638.16	472.51	465.25	1,196.12	735.63	536.12	281.95
*	181.90	*	539.48	*	211.24	*	564.99	*	243.63
2,886.29	2,752.60	6,093.78	7,343.95	1,809.73	2,229.35	5,223.02	6,035.83	3,468.36	3,489.88
.....	498.92	2,321.04	1,506.58	.....	.....	.....	.....	.....	391.06
262.65	.....	.....	.....	598.87	657.41	1,653.76	1,272.83	165.01	.....
255.00	340.00	641.00	686.00	299.00	312.00	418.00	437.00	342.00	352.00
.....	158.92	1,680.04	820.58	.....	.....	.....	.....	.....	39.06
517.65	.....	.....	.....	897.87	969.41	2,071.76	1,709.83	507.01	.....

* Included in "Interest" in 1920.

xa Operated by Municipal Council.

STATEMENT

Comparative Detailed Operating Reports of Electric Departments of

SEVERN SYSTEM—Continued

Municipality Population	Waubashene xa P.V.		SEVERN SYSTEM SUMMARY	
	1920	1921	1920	1921
EARNINGS				
	\$ c.	\$ c.	\$ c.	\$ c.
Domestic Light.....	1,050.26	1,324.12	70,403.82	86,508.50
Commercial Light.....	640.46	640.36	39,921.42	47,676.76
Commercial Power.....	70.49	112.73	93,979.94	86,035.22
Municipal Power.....			6,769.42	7,844.06
Street Light.....	360.00	360.00	26,529.61	27,253.06
Rural.....				
Miscellaneous.....			6,036.07	5,709.30
Total.....	1,959.21	2,437.21	243,640.28	261,026.90
EXPENSES				
Power Purchased.....	963.72	1,256.89	170,576.13	181,684.51
Sub-Station Operation.....			2,250.24	2,882.04
Sub-Station Maintenance.....			131.43	223.58
Distribution System, Operation and Maintenance.....	74.53	6.50	6,518.92	7,824.16
Line Transformer Maintenance.....			481.84	598.67
Meter Maintenance.....			336.97	1,072.26
Consumers' Premises Exp.....				
Street Light Operation and Maintenance.....		26.00	3,006.05	3,694.77
Promotion of Business.....				
Billing and Collecting.....			2,942.37	2,739.50
Gen. Office—Salaries and Exp.....	269.88	307.81	15,932.94	16,119.11
Undistributed Expenses.....			1,279.54	2,039.18
Miscellaneous Expenses.....				
Interest.....	310.61	178.26	24,679.31	20,497.53
Sinking Fund and Principal Payments on Debentures..	*	127.32	*	8,663.04
Total Expenses.....	1,618.74	1,902.78	228,135.74	248,038.35
Gross Surplus.....	340.47	534.43	15,504.54	12,988.55
Gross Loss.....				
Depreciation Charge.....	194.00	202.00	23,186.75	24,073.00
Net Surplus.....	146.47	332.43		
Net Loss.....			7,682.21	11,084.45

* Included in "Interest" in 1920.

xa Operated by Municipal Council.

"C"—Continued

Hydro Municipalities for the years ending Dec. 31st, 1920 and 1921

EUGENIA
SYSTEM

Arthur 1,218		Chatsworth xa 326		Chesley xb 1,721		Dundalk xa 690		Durham 1,400	
1920	1921	1920	1921	1920	1921	1920	1921	1920	1921
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
1,949.56	2,368.81	724.34	985.81	4,000.52	5,352.03	1,328.45	1,597.79	3,095.24	4,071.98
1,898.65	2,699.10	579.22	786.28	2,948.77	3,523.13	1,284.67	1,680.40	2,182.30	2,774.44
4,948.55	5,013.98	298.26	619.31	6,905.15	6,928.79	2,208.80	2,558.03	2,430.41	8,893.04
1,087.98	1,317.98	408.32	448.00	458.94	789.03	800.06	882.00	1,224.50	1,410.50
				1,372.02	1,527.19				
				143.09	50.91		40.43		
9,884.74	11,399.87	2,010.14	2,839.40	15,828.49	18,171.08	5,621.98	6,758.65	8,932.45	17,149.96
11,349.93	10,829.32	1,650.22	1,766.98	12,679.37	11,744.97	4,373.18	4,575.06	4,958.47	10,358.25
477.09	199.27	61.82	216.31	686.56	797.28	376.19	125.25	168.68	632.62
175.85	204.77	72.95	62.00	66.86	89.65	91.54	79.65	114.52	267.18
398.91	533.68	184.24	136.13	551.45	597.49	221.44	224.00	768.62	1,004.14
1,886.75	1,810.16	541.21	384.89	2,601.85	1,654.28	468.07	328.33	1,728.68	1,201.52
*	319.98	*	175.34	*	998.92	*	187.45	*	644.54
14,288.43	13,897.18	2,510.44	2,741.65	16,586.09	15,882.59	5,658.63	5,519.74	7,738.97	14,108.25
			97.75		2,288.49		1,238.91	1,193.48	3,041.71
4,403.69	2,497.31	500.30		757.60		36.65			
927.00	979.00	221.00	233.00	1,111.00	1,189.00	386.00	404.00	870.00	1,071.00
					1,099.49		834.91	323.48	1,970.71
5,330.69	3,476.31	721.30	135.25	1,868.60		422.65			

* Included in "Interest" in 1920.

xa Operated by Municipal Council.

xb Hydro and Water Departments under one Commission.

STATEMENT
Comparative Detailed Operating Reports of Electric Departments of

EUGENIA
SYSTEM—Continued

Municipality Population	Elmwood xa P.V.		Flesherton 417		Grand Valley 595	
	1920	1921	1920	1921	1920	1921
EARNINGS						
	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Domestic Light.....	592.57	762.83	1,152.24	1,585.13	1,725.49	2,202.44
Commercial Light.....	351.78	545.58	763.00	1,278.80	1,484.90	2,157.32
Commercial Power.....	1,514.17	1,802.31	701.76	446.07	1,631.54	1,869.20
Municipal Power.....						
Street Light.....	569.25	548.29	594.00	644.00	832.00	970.60
Rural.....						
Miscellaneous.....	1.80				7.38	13.64
Total.....	3,029.57	3,659.01	3,211.00	3,954.00	5,681.31	7,213.20
EXPENSES						
Power Purchased.....	2,882.66	2,650.67	2,550.79	2,765.44	4,710.33	3,883.65
Sub-Station Operation.....						
Sub-Station Maintenance.....						
Distribution System, Opera- tion and Maintenance....	40.77	17.91	30.53	173.17	48.65	63.16
Line Transformer Mainten'ce.....						
Meter Maintenance.....						
Consumers' Premises Exp..						
Street Light Operation and Maintenance.....	29.84	49.69	58.31	71.70	60.50	96.00
Promotion of Business.....						
Billing and Collecting.....						
Gen. Office—Salaries and Exp.	123.14	93.83	143.20	267.38	282.15	263.23
Undistributed Expenses.....			8.02			
Miscellaneous Expenses.....						
Interest.....	648.90	479.39	478.28	498.52	988.50	654.62
Sinking Fund and Principal Payments on Debentures..	*	211.76	*	105.65	*	377.52
Total Expenses.....	3,725.31	3,503.25	3,269.13	3,881.86	6,090.13	5,338.18
Gross Surplus.....		155.76		72.14		1,875.02
Gross Loss.....	695.74		58.13		408.82	
Depreciation Charge.....	259.00	272.00	306.00	309.00	473.00	515.00
Net Surplus.....						1,360.00
Net Loss.....	954.74	116.24	364.13	236.86	881.82	

* Included in "Interest" in 1920.
xa Operated by Municipal Council.

“ C ”—Continued

Hydro Municipalities for the years ending Dec. 31st, 1920 and 1921

Hanover xb 2,842		Holstein xa P.V.		Kincar- xb dine A 2,036	Lucknow B xa 918	Markdale 927		Mount Forest xb 1,825	
1920	1921	1920	1921	1921	1921	1920	1921	1920	1921
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
6,599.51	8,978.84	459.38	510.16	3,742.64	1,444.43	2,054.17	2,496.08	2,959.09	4,050.74
3,852.40	4,807.51	405.80	472.86	2,179.51	1,551.66	1,321.06	1,550.66	3,625.36	5,279.82
16,954.80	39,475.98	109.47	215.76	357.48	1,063.91	1,513.24	1,414.47	2,772.21	3,750.47
2,010.50	2,720.69	231.50	296.32	2,545.07	1,256.67	739.37	910.78	1,410.21	1,468.95
107.61						193.27	178.86	1,953.00	2,302.75
						481.26			107.24
29,524.82	55,983.02	1,206.15	1,495.10	8,824.70	5,316.67	6,302.37	6,550.85	12,719.87	16,959.97
26,087.94	39,888.41	1,484.58	1,788.06	7,061.19	4,454.69	2,973.66	3,232.18	10,652.13	12,830.19
1,944.51	3,690.86	27.78		1,959.62	44.77	434.47	144.23	500.34	1,223.59
289.62	127.15	11.64	30.19	53.82	25.27	91.80	43.90	434.48	229.58
1,573.76	2,075.96	108.33	124.50	2,573.79	262.80	459.73	587.90	724.22	1,451.73
5,319.04	4,066.89	382.99	309.70	2,328.37	814.99	953.99	764.27	2,611.45	1,615.73
*	2,235.12	*	112.45	1,087.38	262.17	*	152.42	*	786.52
35,214.87	52,084.39	2,015.32	2,364.90	15,064.17	5,864.69	1,388.72	4,991.32	15,184.77	18,137.34
	3,898.63						1,559.53		
5,690.05		809.17	869.80	6,239.47	548.02			2,464.90	1,177.37
2,536.00	3,056.00	122.00	124.00			573.00	600.00	1,109.00	1,203.00
	842.63					815.72	959.53		
8,226.05		931.17	993.80	6,239.47	548.02			3,573.90	2,380.37

* Included in "Interest" in 1920.
xa Operated by Municipal Council.
xb Hydro and Water Departments under one Commission.
A Eight months' operation.
B Ten months' operation.

STATEMENT

Comparative Detailed Operating Reports of Electric Departments of

**EUGENIA
SYSTEM—Continued**

Municipality Population	Neustadt 444		Orangeville 2,427		Owen Sound xb 12,013	
Year	1920	1921	1920	1921	1920	1921
EARNINGS						
	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Domestic Light.....	813.48	1,159.34	2,891.19	3,660.49	21,798.34	26,511.72
Commercial Light.....	526.21	737.47	2,852.54	3,707.47	15,160.58	16,442.16
Commercial Power.....	2,656.17	3,214.94	3,813.67	3,869.74	24,645.87	29,116.14
Municipal Power.....			314.00	342.00		
Street Light.....	819.00	975.00	2,849.15	3,810.40	11,018.09	11,270.75
Rural.....						
Miscellaneous.....			233.87	193.27	2,076.01	
Total.....	4,814.86	6,086.75	12,954.42	15,583.37	74,698.89	83,340.77
EXPENSES						
Power Purchased.....	5,030.57	7,107.25	9,745.84	9,319.36	47,256.74	56,720.95
Sub-Station Operation.....						
Sub-Station Maintenance.....					3,152.31	4,142.68
Distribution System, Operation and Maintenance.....	288.08	137.74	1,473.66	1,499.48	1,827.83	4,144.46
Line Transformer Maintenance.....						1,297.50
Meter Maintenance.....					539.59	42.21
Consumers' Premises Exp.....						
Street Light Operation and Maintenance.....	59.37	225.58	116.14	304.80	1,952.74	2,594.75
Promotion of Business.....						
Billing and Collecting.....					1,915.58	2,433.63
Gen. Office—Salaries and Exp.....	116.70	199.17	430.57	517.25	6,181.94	6,009.91
Undistributed Expenses.....					471.96	1,135.16
Miscellaneous Expenses.....						
Interest.....	1,336.71	803.34	3,088.37	1,891.67	8,614.29	1,864.53
Sinking Fund and Principal Payments on Debentures..	*	529.88	*	1,213.08	*	7,763.83
Total Expenses.....	6,831.43	9,002.96	14,854.58	14,745.64	71,912.98	88,149.61
Gross Surplus.....				837.73	2,785.91	
Gross Loss.....	2,016.57	2,916.21	1,900.16			4,808.84
Depreciation Charge.....	502.00	611.00	1,313.00	1,497.00	6,006.25	6,392.67
Net Surplus.....						
Net Loss.....	2,518.57	3,527.21	3,213.16	659.27	3,220.34	11,201.51

* Included in "Interest" in 1920.

xb Hydro and Water Departments under one Commission.

"C"—Continued

Hydro Municipalities for the years ending Dec. 31st, 1920 and 1921

Price- ville P.V. xa	Ripley P.V. A B		Shelburne 1,075 xb		Tara 537		Tees- water 807 A		Wingham 2,337 xb		EUGENIA SYSTEM SUMMARY	
1921	1921		1920	1921	1920	1921	1921	1921	1921	1920	1921	
\$ c.	\$ c.		\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	
211.50	855.57		2,616.47	3,754.83	1,093.36	1,824.49	1,803.67	9,381.46	55,853.40	89,312.78		
117.80	922.75		2,084.51	2,862.25	1,047.54	1,787.89	1,116.98	4,348.31	42,369.29	63,330.15		
.....	2,244.98		3,752.54	4,068.30	950.40	1,134.69	1,179.56	15,278.46	77,807.01	134,515.61		
			333.78	391.99				561.43	2,516.93	3,553.40		
315.00	1,080.00		1,182.96	1,327.05	1,272.00	1,340.00	1,480.58	2,953.72	28,963.70	42,333.34		
.....					113.07	96.71			306.34	275.57		
.....									3,051.02	405.49		
644.30	5,103.30		9,970.26	12,404.42	4,476.37	6,183.78	5,580.79	32,523.38	210,867.69	333,726.34		
507.72	4,354.38		8,674.95	7,945.42	5,002.53	4,333.05	4,598.73	19,544.70	162,063.79	232,260.62		
.....								565.25		565.25		
.....								839.50	3,152.31	4,982.18		
.....	24.19		471.34	349.96	154.78	262.16	165.20	3,077.16	9,013.08	18,948.39		
.....									539.59	1,297.50		
.....										42.21		
3.50	.....		60.00	15.00	84.81	145.49	24.71	376.74	3,770.97	5,121.12		
.....									1,915.58	2,433.63		
14.10	237.22		660.08	478.86	267.42	318.57	167.95	2,163.71	13,195.90	20,303.30		
.....									870.34	1,201.58		
185.62	544.11		1,689.57	1,205.63	1,186.83	1,070.55	2,082.43	2,106.97	34,525.48	28,666.51		
163.10	201.12		*	727.16	*	495.91	1,066.39	2,127.38	*	21,945.07		
874.04	5,361.02		11,555.94	10,722.03	6,696.37	6,625.73	8,105.41	30,801.41	229,047.04	337,767.36		
.....				1,682.39				1,721.97				
229.74	257.72		1,585.68	.....	2,220.00	441.95	2,524.62	.....	18,179.35	4,041.02		
.....			822.00	886.00	545.00	576.00	.....	2,660.00	18,081.25	22,577.67		
.....				796.39								
229.74	257.72		2,407.68	.....	2,765.00	1,017.95	2,524.62	938.03	36,260.60	26,618.69		

* Included in "Interest" in 1920.

xa Operated by Municipal Council.

xb Hydro and Water Departments under one Commission.

A Eleven months' operation.

B Ten months' operation.

STATEMENT
Comparative Detailed Operating Reports of Electric Departments of

WASDELLS
SYSTEM

Municipality Population	Beaverton 975		Breachin xa P.V.		Cannington 896	
Year	1920	1921	1920	1921	1920	1921
EARNINGS						
	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Domestic Light.....	3,472.74	3,908.27	596.76	650.85	3,713.43	4,384.72
Commercial Light.....	1,723.15	2,155.25	707.93	1,029.78	2,042.35	2,398.50
Commercial Power.....	3,332.06	3,790.32	1,646.15	2,036.27	1,132.55	1,207.13
Municipal Power.....						
Street Light.....	1,079.45	1,079.50	149.25	189.00	1,011.99	1,224.00
Rural.....	874.95	1,402.32				
Miscellaneous.....	631.59		150.00	150.00	115.55	130.53
Total.....	11,113.94	12,335.66	3,250.09	4,055.90	8,015.87	9,344.88
EXPENSES						
Power Purchased.....	6,161.84	5,630.75	3,309.97	3,268.69	5,203.62	4,112.90
Sub-Station Operation.....						
Sub-Station Maintenance.....						
Distribution System, Operation and Maintenance.....	1,143.95	899.85	397.57	335.30	884.56	795.57
Line Transformer Maintenance.....						
Meter Maintenance.....						
Consumers' Premises Exp.....						
Street Light Operation and Maintenance.....	64.88	43.45	19.67		75.75	20.64
Promotion of Business.....						
Billing and Collecting.....						
Gen. Office—Salaries and Exp.....	133.18	123.52	20.07	18.89	166.31	215.97
Undistributed Expenses.....		234.52				
Miscellaneous Expenses.....						
Interest.....	1,532.92	1,206.78	396.11	351.76	1,320.63	928.63
Sinking Fund and Principal Payments on Debentures.....		403.27	*	44.69	*	332.63
Total Expenses.....	9,036.77	8,542.14	4,143.39	4,019.33	7,650.87	6,406.34
Gross Surplus.....	2,077.17	3,793.52		36.57	365.00	2,938.54
Gross Loss.....			893.30			
Depreciation Charge.....	538.00	621.00	138.00	134.00	542.00	578.00
Net Surplus.....	1,539.17	3,172.52				2,360.54
Net Loss.....			1,031.30	97.43	177.00	

* Included in "Interest" in 1920.
xa Operated by Municipal Council.

“ C ”—Continued

Hydro Municipalities for the years ending Dec. 31st, 1920 and 1921

Kirkfield xa P.V.		Sunderland xa P.V.		Woodville xa 448		WASDELLS SYSTEM SUMMARY	
1920	1921	1920	1921	1920	1921	1920	1921
\$ c. 78.91 320.95 278.40 678.26	\$ c. 318.70 705.46 633.65 1,657.81	\$ c. 1,580.01 1,062.24 790.48 380.25 1,299.20 5,110.18	\$ c. 1,851.55 1,398.06 814.60 549.00 1,652.46 6,265.67	\$ c. 1,423.96 1,122.12 1,296.75 556.25 633.03 5,032.11	\$ c. 2,195.02 1,330.04 1,846.69 684.00 462.73 6,518.48	\$ c. 10,865.81 6,976.74 8,197.99 3,455.59 2,807.18 897.14 33,200.45	\$ c. 13,309.11 9,017.09 9,695.01 4,359.15 3,517.51 280.53 40,178.40
413.70	1,010.96	4,053.83	3,607.33	3,885.59	3,955.25	23,028.55	21,585.88
104.65	171.43	579.70	525.57	435.69	583.40	3,546.12	3,311.12
16.86	59.60	106.41	78.75	69.61	63.18	353.18	265.62
14.70	17.07	68.02	97.50	16.02	21.44	418.30	494.39 234.52
22.69	371.48	1,201.52	1,074.05	668.69	620.32	5,142.56	4,553.02
.....	173.10	.....	164.77	*	171.05	.....	1,289.51
572.60	1,803.64	6,009.48	5,547.97	5,075.60	5,414.64	32,488.71	31,734.06
105.66	.....	.....	717.70	.....	1,103.84	711.74	8,444.34
.....	145.83	899.30	.....	43.49	.....	.....	.....
.....	249.00	237.00	260.00	170.00	192.00	1,625.00	2,034.00
105.66	.....	.....	457.70	.....	911.84	.....	6,410.34
.....	394.83	1,136.30	.....	213.49	.....	913.26	.....

* Included in “Interest” in 1920.

xa Operated by Municipal Council.

STATEMENT

Comparative Detailed Operating Reports of Electric Departments of

MUSKOKA SYSTEM

Municipality Population	Gravenhurst xb 1,432		Huntsville xb 2,176		MUSKOKA SYSTEM SUMMARY	
Year	1920	1921	1920	1921	1920	1921
EARNINGS						
	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Domestic Light.....	2,832.40	4,219.34	6,953.49	8,380.90	9,785.89	12,600.24
Commercial Light.....	4,762.31	6,239.31	3,233.63	4,325.78	7,995.94	10,565.09
Commercial Power.....	5,943.74	5,024.86	14,228.65	13,413.11	20,172.39	18,437.97
Municipal Power.....	633.00	504.00	1,083.33	1,032.63	1,716.33	1,536.63
Street Light.....	1,199.18	1,804.23	1,887.00	1,887.00	3,086.18	3,691.23
Rural.....						
Miscellaneous.....	504.44		84.57	514.19	589.01	514.19
Total.....	15,875.07	17,791.74	27,470.67	29,553.61	43,345.74	47,345.35
EXPENSES						
Power Purchased.....	7,022.07	6,807.01	19,586.93	20,362.63	26,609.00	27,169.64
Sub-Station Operation.....						
Sub-Station Maintenance.....						
Distribution System, Operation and Maintenance....	2,497.83	2,679.08	1,025.60	746.60	3,523.43	3,425.68
Line Transformer Maintenance.....						
Meter Maintenance.....						
Consumers' Premises Exp.....						
Street Light Operation and Maintenance.....	372.65	386.10	98.68	152.52	471.33	538.62
Promotion of Business.....						
Billing and Collecting.....						
Gen. Office—Salaries and Exp.....	1,715.74	1,704.40	2,447.57	2,282.51	4,163.31	3,986.91
Undistributed Expenses.....						
Miscellaneous Expenses.....						
Interest.....	4,089.04	1,835.89	2,496.92	1,336.48	6,585.96	3,172.37
Sinking Fund and Principal Payments on Debentures..	*	1,982.67	*	965.33	*	2,948.00
Total Expenses.....	15,697.33	15,395.15	25,655.70	25,846.07	41,353.03	41,241.22
Gross Surplus.....	177.74	2,396.59	1,814.97	3,707.54	1,992.71	6,104.13
Gross Loss.....						
Depreciation Charge.....	2,170.00	2,135.00	884.00	966.00	3,054.00	3,101.00
Net Surplus.....		261.59	930.97	2,741.54		3,003.13
Net Loss.....	1,992.26				1,061.29	

* Included in "Interest" in 1920.

xb Hydro and Water Departments under one Commission.

“ C ”—Continued

Hydro Municipalities for the years ending Dec. 31st, 1920 and 1921

ST. LAWRENCE
SYSTEM

Alexandria		Apple Hill P.V.		Brockville		Chesterville		Lancaster	Martin-town P.V.	Maxville
2,275				9,254		919		639		721
xb	a xa	b	xd			xa		xa c	xa c	xa a
1921	1921	1920	1921	1920	1921	1921	1921	1921	1921	1921
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
3,053.03	264.14	20,943.36	27,780.61	2,618.21	3,559.07	405.83	258.15	1,163.74		
3,227.37	236.51	20,382.61	24,960.63	3,085.60	2,923.10	399.35	190.42	974.77		
3,657.79	221.14	32,694.72	37,701.25	6,955.75	6,133.40			305.47		
884.54		5,878.00	6,163.15							
3,116.56	271.75	9,000.00	9,000.00	1,116.00	1,235.00	621.37	210.00	821.33		
							54.25			
				846.33						
13,939.29	993.54	88,898.69	105,605.64	14,621.29	13,850.57	1,426.55	712.82	3,265.31		
10,316.44	825.96	49,713.84	55,951.02	11,569.91	11,671.99	2,232.53	531.71	3,735.26		
		7,922.16	9,500.28							
		1,378.04	2,136.03							
1,793.51	44.89	4,967.09	4,479.13	936.49	1,165.07	3.16	.20	213.46		
		32.71	257.69							
		1,199.05	1,189.94							
256.47	38.80	1,768.63	2,490.60	94.81	56.99	64.80	8.10	151.39		
		1,376.30	1,696.63							
		819.88	955.13							
1,191.89	107.00	3,686.76	3,666.53	135.43	128.09	33.78	25.51	76.91		
		2,866.21	2,276.28		180.41					
1,215.42	29.40	17,622.28	9,661.98	1,032.20	705.03	441.81	150.66	548.38		
1,289.42		*	8,985.82	*	235.96	176.70	81.55	458.87		
16,063.15	1,046.05	93,352.95	103,247.06	13,768.84	14,143.54	2,952.78	797.73	5,184.27		
			2,358.58	853.05						
2,123.86	52.51	4,454.26			292.97	1,526.23	84.91	1,918.96		
		3,675.00	4,867.00	490.00	534.00					
				363.05						
2,123.86	52.51	8,129.26	2,508.42		* 826.97	1,526.23	84.91	1,918.96		

a Ten months' operation.
b Seven months' operation.
c Six months' operation.
* Included in "Interest" in 1920.
xa Operated by Municipal Council.
xb Hydro and Water Departments under one Commission.
xd Hydro, Gas and Water under one Commission.

STATEMENT
Comparative Detailed Operating Reports of Electric Departments of

ST. LAWRENCE
SYSTEM—Continued

Municipality Population	Prescott xb 2,758		Williamsburg xa P.V.		Winchester xa 1,028	
	1920	1921	1920	1921	1920	1921
EARNINGS						
	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Domestic Light.....	5,952.58	7,851.66	759.05	926.67	3,808.56	4,987.06
Commercial Light.....	4,043.40	4,730.49	253.05	439.04	2,242.15	2,925.86
Commercial Power.....	3,667.19	4,087.29	317.42	230.38	569.08	595.07
Municipal Power.....	1,539.72	1,634.65				
Street Light.....	4,137.00	4,693.50	221.00	221.00	1,590.42	1,930.50
Rural.....						
Miscellaneous.....	83.67	78.15		82.94	553.34	777.17
Total.....	19,423.56	23,075.74	1,550.52	1,900.03	8,763.55	11,215.66
EXPENSES						
Power Purchased.....	10,779.58	10,946.18	1,020.79	1,333.75	6,470.61	6,057.65
Sub-Station Operation.....	392.89	615.59				
Sub-Station Maintenance.....		144.16				
Distribution System, Opera- tion and Maintenance.....	1,157.67	1,442.16	163.47	265.74	1,075.54	936.35
Line Transformer Mainten'ce.....						
Meter Maintenance.....						
Consumers' Premises Exp.....						
Street Light Operation and Maintenance.....	635.07	609.59	7.25	20.59	117.53	127.78
Promotion of Business.....						
Billing and Collecting.....	72.52	82.23				
Gen. Office—Salaries and Exp.....	2,264.41	2,220.65	26.37	18.17	611.52	643.30
Undistributed Expenses.....	591.37	423.50				
Miscellaneous Expenses.....						
Interest.....	2,254.35	1,057.10	277.16	109.20	959.77	717.31
Sinking Fund and Principal Payments on Debentures..	*	1,143.81	*	111.47	*	190.28
Total Expenses.....	18,147.86	18,684.97	1,495.04	1,858.92	9,234.97	8,672.67
Gross Surplus.....	1,275.70	4,390.77	55.48	41.11		2,542.99
Gross Loss.....					471.42	
Depreciation Charge.....	2,302.00	2,422.00	118.00	124.00	536.00	579.00
Net Surplus.....		1,968.77				1,963.99
Net Loss.....	1,026.30		62.52	82.89	1,007.42	

* Included in "Interest" in 1920.

xa Operated by Municipal Council.

xb Hydro and Water Departments under one Commission.

"C"—Continued

Hydro Municipalities for the years ending Dec. 31st, 1920 and 1921

ST. LAWRENCE SYSTEM SUMMARY		RIDEAU SYSTEM						
		Carlton Place xb 3,430		Lanark a 256	Perth xb 3,630		Smith's Falls 6,665	
		1920	1921	1921	1920	1921	1920	1921
1920	1921	1920	1921	1921	1920	1921	1920	1921
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
34,081.76	50,249.96	8,241.32	11,854.98	362.16	10,216.95	12,485.61	19,399.20	24,285.20
30,006.81	41,007.54	6,835.20	7,974.78	230.36	702.19	8,879.44	11,655.03	12,264.33
44,204.16	52,931.79	16,446.76	18,877.89	.....	13,538.26	15,297.72	18,676.17	22,766.84
7,417.72	8,682.34	1,340.30	1,653.39	.....	2,110.01	2,723.70	3,716.58	2,537.20
16,064.42	22,121.01	1,306.50	1,810.22	163.32	1,064.30	1,369.93	4,612.22	4,250.00
.....	54.25	.....	.....	.....	.....	.....	.....	.....
1,483.34	938.26	.....	402.97	.....	3,374.68	1,287.22	702.14	917.81
133,258.21	175,985.15	34,170.08	42,574.23	755.84	37,329.39	42,043.62	58,761.34	67,021.38
79,554.73	103,602.49	23,033.09	31,698.59	556.24	20,083.77	22,699.64	23,848.30	33,638.60
8,315.05	10,115.87	24.02	167.27	.....	1,170.00	.....	10,338.48	1,848.38
1,378.04	2,280.19	.....	.....	.....	752.37	395.33	1,107.58	226.74
8,300.26	10,343.67	2,142.17	1,943.15	26.70	389.51	462.45	2,613.15	1,903.71
32.71	257.69	58.95	179.55	.....	39.52	14.90	.....	.....
1,199.05	1,189.94	777.20	471.94	.....	30.68	466.43	389.47	835.84
.....
2,623.29	3,825.11	750.55	907.69	10.90	385.69	138.70	919.32	699.23
1,376.30	1,696.63	.....	.....	.....	.....	.....	.....	.....
892.40	1,037.36	520.54	637.92	.....	748.85	852.92	2,938.22	1,896.04
6,724.49	8,111.83	2,987.28	2,624.34	5.38	1,023.40	2,402.21	4,821.23	5,096.46
3,457.58	2,880.19	50.74	.....	.....	462.55	444.89	1,186.33	1,659.09
22,145.76	14,636.29	3,908.96	3,631.71	65.47	7,885.69	5,480.79	14,586.20	11,068.16
*	12,673.88	*	568.49	.....	*	738.19	*	5,790.35
135,999.66	172,651.14	34,253.50	42,830.65	664.69	32,972.03	34,096.45	62,748.28	64,662.60
.....	3,334.01	.....	.....	91.15	4,357.36	7,947.17	.....	2,358.78
2,741.45	.....	83.42	256.42	.....	.....	.....	3,986.94	.....
7,121.00	8,526.00	1,891.00	2,231.00	.....	2,493.00	2,725.00	5,615.00	6,639.25
.....	.....	.....	.....	91.15	1,864.36	5,222.17	.....	.....
9,862.45	5,191.99	1,974.42	2,487.42	.....	.....	.....	9,601.94	4,280.47

* Included in "Interest" in 1920.

a Five months' operation.

xb Hydro and Water Departments under one Commission.

STATEMENT

Comparative Detailed Operating Reports of Electric Departments of

RIDEAU SYSTEM—Concluded			THUNDER BAY SYSTEM		OTTAWA SYSTEM	
Municipality	RIDEAU SYSTEM SUMMARY		Port Arthur xf 15,201		Ottawa 110,708	
Population						
Year	1920	1921	1920	1921	1920	1921
EARNINGS						
	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Domestic Light.....	37,857.47	48,987.95	45,432.34	49,880.56	109,844.13	131,863.72
Commercial Light.....	25,515.42	29,348.91	32,165.55	31,067.82	62,833.70	67,251.51
Commercial Power.....	48,661.19	56,942.45	144,741.85	185,395.43	34,881.92	34,202.59
Municipal Power.....	7,166.89	6,914.29	33,787.47	34,500.97	26,799.34	29,131.15
Street Light.....	6,983.02	7,593.47	14,349.00	16,963.00	60,396.13	61,894.15
Rural.....						
Miscellaneous.....	4,076.82	2,608.00	3,159.53	1,221.85	10,555.57	3,765.85
Total.....	130,260.81	152,395.07	273,635.74	319,029.63	305,310.79	328,108.97
EXPENSES						
Power Purchased.....	66,965.16	88,593.07	108,230.49	180,592.95	96,791.65	107,133.65
Sub-Station Operation.....	11,532.50	2,015.65	8,430.02	8,750.22	7,956.62	9,824.52
Sub-Station Maintenance.....	1,859.95	622.07	1,911.78	3,281.46	200.33	
Distribution System, Operation and Maintenance....	5,144.83	4,336.01	8,345.35	22,514.61	19,477.18	17,095.18
Line Transformer Maintenance.....	98.47	194.45	742.72	410.86	888.00	1,516.78
Meter Maintenance.....	1,197.35	1,774.21	4,299.04	3,949.59	3,469.78	3,440.89
Consumers' Premises Exp.....				9.21		
Street Light Operation and Maintenance.....	2,055.56	1,756.52	1,598.86	4,310.46	25,060.34	26,199.07
Promotion of Business.....			1,071.62	1,558.68	7,250.02	7,922.13
Billing and Collecting.....	4,207.61	3,386.88	3,390.63	3,894.94	22,598.50	23,861.26
Gen. Office—Salaries and Exp.....	8,831.91	10,128.39	12,398.71	8,820.58	15,862.29	15,002.41
Undistributed Expenses.....	1,699.62	2,103.98	3,322.66	8,349.11	8,618.89	9,196.40
Miscellaneous Expenses.....						
Interest.....	26,380.85	20,246.13	44,358.21	22,752.60	41,927.74	30,503.28
Sinking Fund and Principal Payments on Debentures..	*	7,097.03	*	16,914.05	*	14,621.44
Total Expenses.....	129,973.81	142,254.39	198,100.09	286,109.32	250,101.34	266,317.01
Gross Surplus.....	287.00	10,140.68	75,535.65	32,920.31	55,209.45	61,791.96
Gross Loss.....						
Depreciation Charge.....	9,999.00	11,595.25	11,492.00	11,492.90	42,800.00	46,737.00
Net Surplus.....			64,043.65	21,428.31	12,409.45	15,054.96
Net Loss.....	9,712.00	1,454.57				

* Included in "Interest" in 1920.

xf Hydro, Water, Telephone and Railway under one Commission

"C"—Continued

Hydro Municipalities for the years ending Dec. 31st, 1920 and 1921

TRENT
SYSTEM

Bloomfield 550		Havelock a 1,266	Kingston xc 22,368		Lakefield d 1,146		Marmora b 853	Norwood a 711
1920	1921	1921	1920	1921	1920	1921	1921	1921
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
1,184.19	1,481.86	2,878.51	36,308.98	45,106.18	571.45	2,003.69	1,568.49	1,509.20
607.68	665.41	948.64	47,611.14	49,129.35	336.69	2,342.58	1,230.50	1,001.85
1,000.32	635.33		34,811.19	39,525.13	1,328.30	3,134.24	61.56	27.18
			5,952.04	6,310.65				
875.00	975.00	2,128.00	23,324.66	20,000.00	607.00	1,836.00	2,187.00	2,102.80
15.93			3,493.75	449.22	27.99			
3,683.12	3,757.60	5,955.15	151,501.76	160,520.53	2,871.43	9,316.51	5,047.55	4,641.03
2,365.19	2,341.71	2,918.77	48,401.18	55,636.24	1,653.24	4,984.23	1,227.59	1,104.30
			11,776.80	12,262.24				
			3,171.65	4,510.85				
11.00	66.47	676.31	5,175.75	4,744.99	400.00	1,285.14	93.91	778.79
			1,918.89	1,395.41				
			2,464.38	2,926.36				
10.52	77.85	156.32	9,883.67	10,901.61		31.63	38.90	81.83
			3,644.74	3,778.83				
249.01	215.15	70.18	6,052.83	7,639.47	116.84	185.52	362.85	136.84
			5,246.41	6,954.07				
707.58	717.40	1,035.46	22,207.55	13,419.29		1,942.78	1,181.17	579.24
*	200.69	785.63	*	8,828.78		387.84	573.91	157.01
3,343.30	3,619.27	5,642.67	119,943.85	132,998.14	2,170.08	8,817.14	3,478.33	2,838.01
339.82	138.33	312.48	31,557.91	27,522.39	701.35	499.37	1,569.22	1,803.02
367.00	386.00		11,958.00	12,603.00		901.00		
		312.48	19,599.91	14,919.39	701.35		1,569.22	1,803.02
27.18	247.67					401.63		

a Ten months' operation.

b Eleven months' operation.

d Four months' operation.

* Included in "Interest" in 1920.

xc Hydro and Gas under one Commission.

STATEMENT

Comparative Detailed Operating Reports of Electric Departments of

TRENT SYSTEM—Concluded

Municipality Population	Omemee xa 557		Peterboro xb 21,790		Picton xb 3,189	
Year	1920	1921	1920	1921	1920	1921
EARNINGS						
	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Domestic Light.....	999.89	1,213.80	51,291.38	59,506.10	9,915.08	11,840.43
Commercial Light.....	681.07	781.01	30,144.81	35,364.67	9,480.61	9,641.61
Commercial Power.....	248.29	2,081.00	51,072.38	76,195.98	5,148.99	8,042.96
Municipal Power.....					4,328.95	4,120.01
Street Light.....	893.74	847.18	14,388.98	15,132.95	3,936.00	3,971.68
Rural.....						
Miscellaneous.....			119.02	257.65	5,090.36	62.21
Total.....	2,822.99	4,922.99	147,516.57	186,457.35	37,900.01	37,678.90
EXPENSES						
Power Purchased.....	1,241.10	2,044.94	63,440.16	106,360.28	17,779.92	14,126.15
Sub-Station Operation.....			2,279.61	2,456.68		
Sub-Station Maintenance.....			131.05	168.16		
Distribution System, Operation and Maintenance.....	165.01	209.93	18,058.03	15,904.48	1,527.28	1,758.10
Line Transformer Maintenance.....			1,481.66	1,316.86		
Meter Maintenance.....			4,167.99	4,650.01		
Consumers' Premises Exp.....						
Street Light Operation and Maintenance.....	.35	13.99	3,587.22	3,871.36	223.25	165.73
Promotion of Business.....						
Billing and Collecting.....			6,103.70	6,234.08		
Gen. Office—Salaries and Exp.....	159.14	174.20	9,546.11	9,997.35	4,348.47	4,584.39
Undistributed Expenses.....			5,454.99	5,202.01	93.96	
Miscellaneous Expenses.....						
Interest.....	1,092.18	791.63	15,207.96	12,362.69	894.44	149.85
Sinking Fund and Principal Payments on Debentures..	*	377.86	*	3,922.63		301.43
Total Expenses.....	2,657.78	3,612.55	129,458.48	172,446.59	24,867.32	21,085.65
Gross Surplus.....	165.21	1,310.44	18,058.09	14,010.76	13,032.69	16,593.25
Gross Loss.....						
Depreciation Charge.....	455.00	529.00	9,177.00	10,419.00	653.00	955.00
Net Surplus.....		781.44	8,881.09	3,591.76	12,379.69	15,638.25
Net Loss.....	289.79					

* Included in "Interest" in 1920.

xa Operated by Municipal Council.

xb Hydro and Water Departments under one Commission.

“ C ”—Continued

Hydro Municipalities for the years ending Dec. 31st, 1920 and 1921

				ALL SYSTEMS	
Wellington xa 850		TRENT SYSTEM SUMMARY		GRAND TOTALS	
1920	1921	1920	1921	1920	1921
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
1,737.62	2,611.66	102,008.59	129,719.92	2,546,345.30	3,149,080.03
1,362.42	1,199.05	90,224.42	102,304.67	1,512,854.63	1,851,501.76
1,503.26	1,736.95	95,112.73	131,440.33	3,731,106.79	3,895,437.46
.....	.....	10,280.99	10,430.66	553,361.52	654,531.01
868.00	882.00	45,393.38	50,062.61	1,005,535.11	1,060,357.77
.....	.....	.....	.....	168,919.95	145,566.57
.....	.....	8,747.07	769.08	189,778.63	225,467.70
5,471.30	6,429.66	351,767.18	424,727.27	9,707,900.93	10,981,942.30
3,220.09	3,389.36	138,100.88	194,133.57	4,216,667.87	4,876,650.31
.....	.....	14,056.41	14,718.92	285,407.35	314,838.35
.....	.....	3,302.70	4,679.01	102,050.81	104,798.01
230.05	466.78	25,567.12	25,984.90	344,551.57	479,405.38
.....	.....	3,400.55	2,712.27	46,323.09	65,088.46
.....	.....	6,632.37	7,576.37	123,701.18	116,722.97
.....	.....	.....	.....	116,283.52	134,854.92
128.05	213.63	13,833.06	15,552.85	236,930.79	297,481.52
.....	.....	.....	.....	78,294.85	101,804.46
.....	.....	9,748.44	10,012.91	295,942.88	321,685.71
581.64	520.02	21,054.04	23,885.97	559,695.29	656,268.11
.....	.....	10,795.36	12,156.08	250,317.29	308,874.42
.....	.....	.....	.....	6,083.04	8,512.95
1,148.64	990.15	41,258.35	33,169.66	1,431,807.16	998,611.47
*	131.32	*	15,667.10	*	532,183.96
5,308.47	5,711.26	287,749.28	360,249.61	8,094,056.69	9,317,781.00
162.83	718.40	64,017.90	64,477.66	1,613,844.24	1,664,161.30
.....
555.00	615.00	23,165.00	26,408.00	902,028.75	1,044,434.85
.....	103.40	40,852.90	38,069.66	711,815.49	619,726.45
392.17	.....	.....	.....	.....	.....

* Included in "Interest" in 1920.
xa Operated by Municipal Council.

STATEMENT "D"

Showing Comparative Revenue, Number of Consumers, Total Kw-hr. Consumption, Domestic and Commercial Light, Average Monthly Consumption per Consumer, Average Monthly Bill, and Net Cost per Kw-hr. for the Years 1912, 1913, 1914, 1915, 1916, 1917, 1918, 1919, 1920 and 1921; also Average Horsepower and Average Cost per Horsepower per Year to Power Consumers.

Municipality	Year	Domestic Light						Commercial Light						Power						
		Revenue \$	Consumption Kw-hrs.	Number of Consumers	Avg Monthly Consumption kw-hr	Average Monthly Bill \$	Net Cost per Kw-hr. cents	Net Cost prior to Hydro cents	Revenue \$	Consumption Kw-hrs.	Number of Consumers	Avg Monthly Consumption kw-hr	Average Monthly Bill \$	Net Cost per Kw-hr. cents	Net Cost prior to Hydro cents	Revenue \$	Number of Consumers	Average Horsepower	Average Cost per Horsepower \$	Total Number Consumers
Acton	1913	1,236.50	82	146	15	6.9	10	1,567.48	19,878	62	28	2.08	7.5	10	318.77	3	147
	1914	1,463.72	146	183	15	6.6	10	1,496.18	19,878	58	36	2.59	7.1	10	836.13	5	...	...	209
	1915	1,931.11	29,079	183	15	6.5	10	1,725.73	24,336	53	36	2.59	7.1	10	1,019.27	5	...	...	241
	1916	1,942.11	29,685	185	15	6.5	10	1,592.62	35,227	60	52	2.35	4.5	10	1,565.53	7	...	...	252
	1917	2,016.13	34,268	200	15	84	5.9	1,600.56	38,244	65	49	2.05	4.2	10	4,116.69	9	157	26.22	274	
	1918	2,154.00	41,593	219	16	85	5.2	1,360.35	32,897	61	43	1.80	4.1	10	5,166.36	9	170	30.39	289	
	1919	2,628.12	44,352	235	16	93	5.9	1,613.56	39,807	65	51	2.07	4.1	10	5,329.46	10	199	26.78	310	
	1920	3,115.26	76,922	260	25	1.00	4.0	1,672.82	40,272	71	47	1.96	4.2	10	5,230.46	10	200	26.15	341	
	1921	3,650.48	100,205	301	28	1.01	3.6	2,012.27	56,732	69	68	2.34	3.5	10	5,558.31	14	216	25.85	384	
Ailsa Craig	1916	579.57	6,270	51	9.2	None	213.46	1,910	11	11.2	None	15.57	1	63
	1917	776.93	7,584	55	12	1.22	10.2	255.84	932	19	11.2	None	1,591.95	4	40	39.80	78
	1918	820.95	9,176	58	13	1.22	8.9	299.58	3,432	24	13	1.19	8.7	10	4,003.23	3	87	46.01	85	
	1919	1,087.47	12,991	71	15	1.28	8.4	496.94	3,578	27	11	1.53	13.1	10	3,786.31	3	93	31.03	99	
	1920	1,292.33	14,654	78	16	1.38	8.8	630.19	6,627	30	18	1.75	9.5	10	5,400.16	3	141	38.30	111	
	1921	1,402.73	20,369	95	18	1.23	6.9	722.21	7,553	32	20	1.88	9.6	10	5,297.07	3	124	42.71	130	
Alliston	1918	1,160.23	48,870	191	713.95	38,340	81	12	437.43	4	276
	1919	3,084.19	62,464	213	19	1.21	6.3	1,897.62	51,527	88	36	1.80	4.9	10	2,049.08	8	72	28.48	309	
	1920	4,255.43	75,424	243	21	1.46	6.8	3,055.99	45,691	88	49	2.89	6.0	10	4,924.33	14	166	29.66	345	
	1921	5,253.63	75,424	262	24	1.67	7.0	3,375.50	45,691	88	43	3.20	7.4	10	3,567.19	15	149	23.94	365	

Arthur—	1917	854.24	9,307	60	13	1.19	9.1	10+25	922.38	9,585	51	17	1.51	9.6	10+25	177.21	2	20	113
	1918	1,065.52	12,457	69	15	1.05	8.5		940.54	9,855	58	14	1.35	9.5		3,285.56	4	80	131
	1919	1,393.50	16,840	84	17	1.38	8.3		1,499.36	16,210	64	21	1.95	9.2		5,103.85	6	130	153
	1920	1,949.56	23,412	95	20	1.81	8.3		1,898.65	19,967	62	25	2.38	9.5		4,948.55	6	126	163
	1921	2,368.81	25,582	101	21	1.95	9.2		2,699.10	21,203	71	25	3.17	12.7		5,013.98	5	122	177
Ancaster—	1920	6,201.70	116,305	363	27	1.42	5.3	None	646.09	12,257	34	30	1.58	5.3	None	144.17	3	12	400
	1921	7,406.62	153,519	422	30	1.38	4.7		891.37	18,556	34	45	2.19	4.8		130.13	3	15	459
Aylmer—	1918	2,569.66		392				10+10	1,986.69		112				10+10	799.21	5		509
	1919	5,391.99	84,789	347	20	1.30	6.4		4,886.86	77,168	118	55	3.38	6.3		3,318.98	5	104	470
	1920	6,533.82	90,129	379	20	1.44	7.3		5,831.46	77,630	109	59	4.46	7.5		3,192.47	7	146	495
	1921	7,358.00	96,078	416	19	1.47	7.6		6,238.14	78,003	108	61	4.81	8.0		3,834.16	10	171	534
Ayr—	1915	892.63	16,031	79			5.5		773.08	9,477	35			8.1		348.78	1		115
	1916	1,084.46	12,314	83	13	1.12	8.8		804.00	12,960	48	26	1.61	6.2	12.5+	393.39	2		133
	1917	1,124.21	14,228	92	14	1.08	7.9	25	857.27	12,441	48	23	1.50	6.9	25	966.44	2	32	142
	1918	1,178.84	14,666	94	13	1.05	8.0		806.01	10,134	49	17	1.37	7.9		1,033.02	2	41	145
	1919	1,461.64	18,926	103	15	1.19	7.7		1,118.50	14,474	47	27	1.99	7.8		1,015.08	3	41	153
	1920	1,762.84	21,747	105	17	1.40	8.1		1,421.75	18,329	43	35	2.75	7.8		2,251.84	6	70	154
	1921	1,882.55	27,255	115	20	1.35	6.8		1,319.32	15,200	42	30	2.62	8.7		2,546.21	5	86	162
Baden—	1913	884.11		75				None	*	5,547	*				None	2,242.77	4		79
	1914	1,247.81	6,920	82	7	75	10.0		*		*	7	75	10.0		4,580.23	4		86
	1915	938.33	12,729	72	13	98	7.4		*		*	13	98	7.4		4,588.87	4		76
	1916	808.21	8,824	84	16	86	5.5		*	5,772	*	16	86	5.5		5,059.33	5		89
	1917	842.09	10,066	58	12	98	8.4		*	5,827	23	12	98	8.4		5,243.91	5	175	86
	1918	975.04	16,543	60	23	98	4.3			5,865	23	21	98	4.3		5,202.04	4	185	87
	1919	1,097.74	15,917	68	20	97	4.7			7,372	26	25	97	4.7		5,669.93	5	211	99
	1920	1,338.03	18,212	73						10,089	28					5,747.18	6	222	107
	1921	958.06	25,280	78	27	102	3.8		456.15	10,390	24	36	1.60	4.4		5,967.22	6	230	108
Barrie—	1913	10,071.55		563				9	9,252.70		200		3.85		9	3,390.29	13		776
	1914	11,149.49	152,095	651	20	1.54	7.3		9,464.64	138,948	200	58	3.93	6.8		3,712.24	13		864
	1915	11,087.98	147,307	843	18	1.24	7.1		9,572.91	177,000	252	65	3.50	5.4		4,567.76	14		1,109
	1916	11,907.10	204,420	896	20	1.14	5.8		10,635.67	189,409	257	63	3.50	5.6		6,918.33	18		1,171
	1917	11,232.68	242,297	942	22	1.02	4.6		8,750.24	185,095	253	61	2.86	4.8		7,978.72	19	310	1,214
	1918	12,436.76	278,882	956	24	1.08	4.4		7,365.45	178,954	258	58	2.40	4.1		9,296.34	20	340	1,234
	1919	12,395.37	345,723	1,079	23	96	4.2		7,245.39	283,758	268	88	2.25	2.5		12,077.45	22	432	1,369
	1920	14,459.88	554,517	1,279	-35	94	2.7		7,245.01	315,778	280	94	2.16	2.3		11,398.66	23	439	1,582
	1921	16,926.24	732,748	1,349	45	1.05	2.3		8,227.70	389,055	267	121	2.57	2.1		10,595.15	27	485	1,643

* Domestic and Commercial Light Revenue not divided.

STATEMENT "D"—Continued

Showing Comparative Revenue, Number of Consumers, Total Kw-hr. Consumption, Domestic and Commercial Light, Average Monthly Consumption per Consumer, Average Monthly Bill, and Net Cost per Kw-hr. for the Years 1912, 1913, 1914, 1915, 1916, 1917, 1918, 1919, 1920 and 1921; also Average Horsepower Sold and Average Cost per Horsepower per Year to Power Consumers.

Municipality	Year	Domestic Light							Commercial Light							Power					
		Revenue	Consumption	Number of Consumers	Avg Monthly Consumption	Average Monthly Bill	Net Cost per Kw-hr.	Net Cost prior to Hydro	Revenue	Kw-hrs.	Consumption	Number of Consumers	Avg Monthly Consumption	Average Monthly Bill	Net Cost per Kw-hr.	Net Cost prior to Hydro	Revenue	Number of Consumers	Average Horsepower	Average Cost per Horsepower	Total Number Consumers
Beachville—	1913	562.97	4,422	45	11	74	7.9	None	*	2,988	*	12	34	2.05	7.9	None	5,993.81	4			49
	1914	587.33	5,356	45	37	84	6.8	None	296.37	4,847	296.37	12	34	2.05	6.1	None	5,368.04	4			49
	1915	363.33	5,891	37	11	74	6.8	None	263.62	3,872	263.62	12	27	1.83	6.8	None	5,593.15	4			53
	1916	400.81	6,317	42	13	84	6.6	None	286.14	5,597	286.14	12	39	1.99	5.1	None	5,393.02	3			57
	1917	419.11	6,317	44	12	79	6.6	None	286.14	5,597	286.14	12	39	1.99	5.1	None	6,354.25	3			59
	1918	441.44	6,448	47	11	79	6.8	None	267.81	6,117	267.81	13	42	1.86	4.3	None	7,684.75	3			63
	1919	467.51	8,721	53	14	74	5.4	None	421.38	8,366	421.38	13	54	2.70	5.0	None	7,174.94	3			69
	1920	788.33	12,838	69	15	95	6.1	None	375.22	9,006	375.22	19	39	1.65	4.2	None	8,631.75	3			91
	1921	786.32	11,404	71	13	92	6.9	None	433.10	9,219	433.10	23	33	1.57	4.7	None	7,992.11	3			97
Beaverton—	1915	1,484.62	20,685	131	13	90	6.9	Flat	1,149.67	17,594	1,149.67	56	25	1.53	6.1	Flat	456.74	5			192
	1916	1,417.39	20,685	131	13	89	7.1	Flat	1,065.23	18,162	1,065.23	60	25	1.58	5.7	Flat	383.45	6			197
	1917	1,482.00	20,945	148	13	89	7.1	Flat	1,041.84	18,162	1,041.84	51	28	1.58	5.7	Flat	650.02	7			206
	1918	2,109.23	27,754	127	17	128	7.6	Flat	1,167.92	22,897	1,167.92	52	37	1.87	5.1	Flat	1,235.93	8			187
	1919	2,818.75	39,920	142	23	165	7.1	Flat	1,318.27	36,495	1,318.27	53	57	2.07	3.6	Flat	1,608.86	8			203
	1920	3,472.74	59,573	151	33	191	5.8	Flat	1,723.15	37,272	1,723.15	52	60	2.76	4.6	Flat	3,332.06	11			214
	1921	3,908.27	53,580	159	28	205	7.3	Flat	2,155.25	38,316	2,155.25	55	58	3.27	5.6	Flat	3,790.32	13			227
Beeton—	1918	268.41	10,114	62	13	1.14	8.9	11+15	144.29	7,926	144.29	18	26	2.46	9.4	11+15	905.60	2			82
	1919	904.40	13,050	66	13	1.14	8.9	11+15	738.36	10,137	738.36	25	26	2.46	9.4	11+15	3,336.77	1			92
	1920	1,284.55	18,121	76	14	1.41	9.8	11+15	906.28	13,595	906.28	28	30	2.70	8.9	11+15	3,740.12	2			106
	1921	1,753.33	18,121	79	19	1.85	9.7	11+15	1,242.18	13,595	1,242.18	30	38	3.45	9.1	11+15	4,507.27	2			111

STATEMENT "D"—Continued

Showing Comparative Revenue, Number of Consumers, Total Kw-hr. Consumption, Domestic and Commercial Light, Average Monthly Consumption per Consumer, Average Monthly Bill, and Net Cost per Kw-hr. for the Years 1912, 1913, 1914, 1915, 1916, 1917, 1918, 1919, 1920 and 1921; also Average Horsepower Sold and Average Cost per Horsepower per Year to Power Consumers.

Municipality	Year	Domestic Light						Commercial Light						Power				Total Number Consumers	
		Revenue	Consumption	Number of Consumers	Avg Monthly Consumption	Average Monthly Bill	Net Cost per Kw-hr.	Net Cost prior to Hydro	Revenue	Consumption	Number of Consumers	Avg Monthly Consumption	Average Monthly Bill	Net Cost per Kw-hr.	Net Cost prior to Hydro	Revenue	Number of Consumers		Horsepower	Average Cost per Horsepower
Brantford	1914	7,103.77	148,427	1,184	19	82	4.8	8+13	5,392.87	166,469	300	94	2.89	3.6	8+13	647.69	11		
	1915	13,629.36	319,439	1,615	19	82	4.3		10,746.67	347,349	321	94	2.89	3.1		12,901.29	18		
	1916	17,504.44	468,324	2,056	21	79	3.7		10,530.19	419,933	334	107	2.68	2.5		24,213.00	26		
	1917	20,881.94	691,572	2,559	25	75	3.0		10,502.19	655,993	363	157	2.51	1.6		48,639.07	37	2,466	19.72
	1918	26,060.42	1,162,002	2,936	35	79	2.2		9,861.64	568,537	361	130	2.27	1.7		54,748.03	40	2,798	19.56
	1919	34,615.20	1,280,629	3,530	30	82	2.7		10,632.25	660,518	397	139	2.34	1.6		51,469.32	46	2,601	19.79
	1920	44,754.95	2,630,164	3,938	56	95	1.6		10,398.10	945,417	434	165	2.00	1.2		70,609.16	58	3,592	19.65
1921	59,931.17	3,390,735	4,458	63	1.12	1.8		12,373.68	901,817	530	143	1.95	1.4		79,347.30	80	4,057	19.56	
Bradford Twp.—	1918	440.72		250				None											
	1919	5,325.01	131,271	548	20	81	4.1		611.75	16,122	26	52	1.96	3.8		2,950.19	4	101	29.21
	1920	6,277.87	146,541	391	31	1.34	4.3		670.44	17,434	22	66	2.54	3.8		4,226.65	4	165	25.62
	1921	7,725.17	188,774	515	31	1.24	4.1		1,171.09	30,779	32	80	3.05	3.8		5,094.81	4	190	26.81
	1921																		
Brigden—	1918	413.29		41				15	760.17		37					710.37	2		
	1919	625.14	6,817	47	12	1.11	9.2		1,080.00	11,433	36	27	2.50	9.5		3,289.96	3	79	41.64
	1920	862.91	9,081	57	13	1.26	9.5		1,384.25	14,863	35	35	3.30	9.3		4,868.57	3	109	44.67
	1921	1,174.28	12,900	71	15	1.38	9.1		1,276.89	16,937	38	37	2.80	7.5		4,115.94	3	116	35.48
	1921																		
Brechin—	1915	148.83		13				None	407.78		14					1,007.59	1		
	1916	172.42	1,836	16	11	1.02	9.4		404.70	5,370	20	28	2.00	7.5		1,153.32	1		
	1917	194.03	2,131	19	10	90	9.1		528.24	7,364	20	31	2.20	7.1		1,285.50	2	32	40.17
	1918	277.18	2,631	22	10	1.12	10.5		552.35	8,177	24	30	2.09	6.7		1,555.32	2	35	44.43
	1919	422.33	5,382	25	18	1.41	7.8		559.35	9,036	25	30	1.86	6.2		2,157.29	3	58	37.20
	1920	596.76	7,484	24	26	2.07	8.0		707.93	8,909	21	35	2.81	7.9		1,646.15	2	60	27.44
	1921	650.85	8,317	28	25	1.94	7.8		1,029.78	8,094	22	31	3.90	12.7		2,036.27	3	62	32.84
	1921																		

Brockville—	1916	12,897.12	144,913	965	.....	9.0	21,994.02	253,153	312	.....	5.54	8.7	9	15,828.62	31	.....	1,308
	1917	14,507.95	152,066	1,018	13	1.22	22,907.56	246,940	378	59	5.54	9.3		30,744.84	49	631.48.72	1,445
	1918	15,731.23	162,902	1,146	12	1.21	23,465.06	250,375	353	57	5.35	9.3		49,647.73	47	.....	1,546
	1919	18,510.68	234,923	1,339	15	1.15	22,816.26	310,515	370	70	5.14	7.3		37,013.69	56	902.41.04	1,765
	1920	20,943.36	324,733	1,396	20	1.25	20,382.61	368,790	344	89	4.94	5.6		38,572.72	59	1,113.34.66	1,799
1921	27,780.61	382,226	1,542	21	1.50	24,960.63	399,529	350	95	5.94	6.2		43,864.40	65	1,210.36.25	1,957	
Burford—	1916	577.69	9,005	64	.....	6.4	380.44	7,569	30	.....	.....	5.0	Flat	519.72	1	.....	15
	1917	834.73	11,519	79	13	98	837.51	13,262	34	2.18	6.3	34		549.31	1	25.21.98	914
	1918	1,089.73	15,489	81	16	1.13	922.16	13,700	27	38	2.56	6.7		434.05	1	25.17.36	109
	1919	1,330.31	18,769	100	17	1.10	1,064.23	17,680	32	46	2.77	6.0		543.25	1	25.21.73	133
	1920	2,023.41	.....	115	.....	1.56	1,194.81	.....	34	.....	3.02	.....		279.34	1	7.40.00	150
1921	2,817.52	31,375	127	21	1.84	1,673.49	18,555	37	42	3.77	9.0		132.50	2	4.33.12	166	
Burgessville—	1917	359.41	5,299	29	.....	.....	115.15	1,506	9	.....	.....	.....	None	815.36	1	88	39
	1918	379.94	4,025	32	11	1.01	102.66	1,321	10	12	95	7.7		875.67	1	30.29.18	43
	1919	423.05	5,623	37	13	95	127.43	1,375	10	11	1.06	9.3		643.88	1	28.22.99	48
	1920	593.18	8,102	45	15	1.10	147.91	1,955	10	16	1.23	7.6		688.75	1	30.22.99	56
	1921	756.62	8,281	44	16	1.43	288.50	2,615	12	18	2.00	11.0		821.31	1	30.27.38	57
Caledonia—	1913	404.60	.....	17	.....	.....	*	.....	16	.....	.....	.....	None	470.34	1	.....	34
	1914	880.54	.....	21	.....	.....	*	.....	32	.....	.....	.....		188.54	1	.....	54
	1915	265.62	4,618	24	16	98	950.38	18,325	33	47	2.44	5.4		138.42	1	.....	58
	1916	263.39	4,800	27	16	86	777.38	20,000	37	47	1.85	4.0		519.82	3	.....	67
	1917	283.63	5,500	33	13	79	786.20	22,800	38	50	1.72	3.4		777.85	4	48.16.21	.....
Cannington—	1918	354.98	7,256	40	16	82	807.14	19,464	42	42	1.68	4.1		922.18	4	33.27.94	86
	1919	453.53	9,105	44	17	86	907.76	24,929	45	46	1.68	3.7		733.31	8	40.18.33	97
	1920	671.96	19,407	60	28	93	1,155.64	44,932	49	76	1.97	2.6		989.23	9	71.14.00	118
	1921	994.76	20,634	76	23	1.09	1,584.02	61,357	55	93	2.40	2.6		1,139.37	7	72.15.82	138
	1915	1,599.40	.....	135	.....	.....	1,120.04	.....	65	.....	.....	.....	12.5	464.26	6	.....	206
Canington—	1916	1,720.25	25,049	150	15	1.00	973.63	13,808	73	17	1.17	7.1		462.47	7	.....	230
	1917	2,040.39	29,390	137	17	1.19	936.22	19,722	70	23	1.10	4.7		495.80	7	45.11.02	214
	1918	2,264.80	40,160	143	24	1.34	917.90	16,741	64	20	1.14	5.4		726.87	9	48.15.14	216
	1919	2,656.21	53,287	162	27	1.37	1,437.51	24,496	63	33	1.90	5.9		786.09	9	64.12.28	234
	1920	3,713.43	73,365	176	35	1.76	2,042.35	24,518	68	30	2.34	8.3		1,132.55	10	70.16.18	254
1921	4,384.72	61,107	182	28	2.01	2,398.50	328.01	70	39	2.85	7.3		1,207.13	11	69.17.49	263	
Carlton Place—	1916	1,720.25	25,049	150	15	1.00	973.63	13,808	73	17	1.17	7.1		462.47	7	.....	230
	1917	2,040.39	29,390	137	17	1.19	936.22	19,722	70	23	1.10	4.7		495.80	7	45.11.02	214
	1918	2,264.80	40,160	143	24	1.34	917.90	16,741	64	20	1.14	5.4		726.87	9	48.15.14	216
Carleton Place—	1919	2,656.21	53,287	162	27	1.37	1,437.51	24,496	63	33	1.90	5.9		786.09	9	64.12.28	234
	1920	3,713.43	73,365	176	35	1.76	2,042.35	24,518	68	30	2.34	8.3		1,132.55	10	70.16.18	254
	1921	4,384.72	61,107	182	28	2.01	2,398.50	328.01	70	39	2.85	7.3		1,207.13	11	69.17.49	263
	1916	1,720.25	25,049	150	15	1.00	973.63	13,808	73	17	1.17	7.1		462.47	7	.....	230
	1917	2,040.39	29,390	137	17	1.19	936.22	19,722	70	23	1.10	4.7		495.80	7	45.11.02	214
Carrington—	1918	2,264.80	40,160	143	24	1.34	917.90	16,741	64	20	1.14	5.4		726.87	9	48.15.14	216
	1919	2,656.21	53,287	162	27	1.37	1,437.51	24,496	63	33	1.90	5.9		786.09	9	64.12.28	234
	1920	3,713.43	73,365	176	35	1.76	2,042.35	24,518	68	30	2.34	8.3		1,132.55	10	70.16.18	254
	1921	4,384.72	61,107	182	28	2.01	2,398.50	328.01	70	39	2.85	7.3		1,207.13	11	69.17.49	263
	1916	1,720.25	25,049	150	15	1.00	973.63	13,808	73	17	1.17	7.1		462.47	7	.....	230
Carlton Place—	1917	2,040.39	29,390	137	17	1.19	936.22	19,722	70	23	1.10	4.7		495.80	7	45.11.02	214
	1918	2,264.80	40,160	143	24	1.34	917.90	16,741	64	20	1.14	5.4		726.87	9	48.15.14	216
	1919	2,656.21	53,287	162	27	1.37	1,437.51	24,496	63	33	1.90	5.9		786.09	9	64.12.28	234
	1920	3,713.43	73,365	176	35	1.76	2,042.35	24,518	68	30	2.34	8.3		1,132.55	10	70.16.18	254
	1921	4,384.72	61,107	182	28	2.01	2,398.50	328.01	70	39	2.85	7.3		1,207.13	11	69.17.49	263
Carleton Place—	1916	1,720.25	25,049	150	15	1.00	973.63	13,808	73	17	1.17	7.1		462.47	7	.....	230
	1917	2,040.39	29,390	137	17	1.19	936.22	19,722	70	23	1.10	4.7		495.80	7	45.11.02	214
	1918	2,264.80	40,160	143	24	1.34	917.90	16,741	64	20	1.14	5.4		726.87	9	48.15.14	216
Carrington—	1919	2,656.21	53,287	162	27	1.37	1,437.51	24,496	63	33	1.90	5.9		786.09	9	64.12.28	234
	1920	3,713.43	73,365	176	35	1.76	2,042.35	24,518	68	30	2.34	8.3		1,132.55	10	70.16.18	254
	1921	4,384.72	61,107	182	28	2.01	2,398.50	328.01	70	39	2.85	7.3		1,207.13	11	69.17.49	263
	1916	1,720.25	25,049	150	15	1.00	973.63	13,808	73	17	1.17	7.1		462.47	7	.....	230
	1917	2,040.39	29,390	137	17	1.19	936.22	19,722	70	23	1.10	4.7		495.80	7	45.11.02	214
Carlton Place—	1918	2,264.80	40,160	143	24	1.34	917.90	16,741	64	20	1.14	5.4		726.87	9	48.15.14	216
	1919	2,656.21	53,287	162	27	1.37	1,437.51	24,496	63	33	1.90	5.9		786.09	9	64.12.28	234
	1920	3,713.43	73,365	176	35	1.76	2,042.35	24,518	68	30	2.34	8.3		1,132.55	10	70.16.18	254
	1921	4,384.72	61,107	182	28	2.01	2,398.50	328.01	70	39	2.85	7.3		1,207.13	11	69.17.49	263
	1916	1,720.25	25,049	150	15	1.00	973.63	13,808	73	17	1.17	7.1		462.47	7	.....	230
Carrington—	1917	2,040.39	29,390	137	17	1.19	936.22	19,722	70	23	1.10	4.7		495.80	7	45.11.02	214
	1918	2,264.80	40,160	143	24	1.34	917.90	16,741	64	20	1.14	5.4		726.87	9	48.15.14	216
	1919	2,656.21	53,287	162	27	1.37	1,437.51	24,496	63	33	1.90	5.9		786.09	9	64.12.28	234
	1920	3,713.43	73,365	176	35	1.76	2,042.35	24,518	68	30	2.34	8.3		1,132.55	10	70.16.18	254
	1921	4,384.72	61,107	182	28	2.01	2,398.50	328.01	70	39	2.85	7.3		1,207.13	11	69.17.49	263
Carleton Place—	1916	1,720.25	25,049	150	15	1.00	973.63	13,808	73	17	1.17	7.1		462.47	7	.....	230
	1917	2,040.39	29,390	137	17	1.19	936.22	19,722	70	23	1.10	4.7		495.80	7	45.11.02	214
	1918	2,264.80	40,160	143	24	1.34	917.90	16,									

STATEMENT "D"—Continued

Showing Comparative Revenue, Number of Consumers, Total Kw-hr. Consumption, Domestic and Commercial Light, Average Monthly Consumption per Consumer, Average Monthly Bill, and Net Cost per Kw-hr. for the Years 1912, 1913, 1914, 1915, 1916, 1917, 1918, 1919, 1920 and 1921; also Average Horsepower and Average Cost per Horsepower per Year to Power Consumers.

Municipality	Year	Domestic Light						Commercial Light						Power						
		Revenue	Consumption	Number of Consumers	Avg Monthly Consumption	Average Monthly Bill	Net Cost per Kw-hr.	Net Cost prior to Hydro	Revenue	Kw-hrs.	Number of Consumers	Avg Monthly Consumption	Average Monthly Bill	Net Cost per Kw-hr.	Net Cost prior to Hydro	Revenue	Number of Consumers	Average Horsepower	Average Cost per Horsepower	Total Number Consumers
Chesley—	1917	2,122.78	25,792	185	12	95	8.2	cents Flat	1,971.03	30,058	81	31	31	5.5	cents Flat	1,725.38	10	64	26.96	276
	1918	2,348.43	32,368	202	14	1.01	7.2	cents	2,071.77	37,126	78	39	39	5.5	cents	2,846.85	13	104	27.37	293
	1919	2,975.29	46,212	226	17	1.10	6.4	cents	2,679.48	46,369	81	48	48	2.76	cents	4,642.70	15	169	27.47	322
	1920	4,000.52	68,967	259	22	1.29	5.8	cents	2,943.77	50,415	83	51	51	2.96	cents	7,364.09	15	207	35.58	357
	1921	5,352.03	84,811	269	26	1.66	6.3	cents	3,523.13	499.37	90	46	46	3.26	cents	7,717.82	14	215	35.89	373
Chatham—	1915	5,581.54	110,552	949	14	80	5.5	cents 8+25	2,806.81	81,805	180	...	...	3.4	cents 8+25	449.70	7	...	...	1,136
	1916	10,155.37	176,508	1,171	14	80	5.8	cents	7,427.36	174,204	215	81	86	3.48	cents	3,766.37	25	...	...	1,401
	1917	13,245.86	257,773	1,261	18	91	5.1	cents	10,633.12	249,739	271	86	3.65	4.3	cents	16,573.93	46	654	25.34	1,578
	1918	14,124.28	371,827	1,309	24	91	3.8	cents	12,102.91	381,388	265	118	3.76	3.1	cents	35,750.36	35	1,269	28.17	1,609
	1919	16,019.69	474,303	1,432	28	93	3.4	cents	12,994.41	434,425	280	129	3.87	3.0	cents	38,069.64	38	1,371	27.77	1,750
	1920	43,039.25	1,175,474	3,360	29	1.07	3.7	cents	27,592.06	801,594	572	115	4.02	3.4	cents	62,829.08	87	2,316	33.78	4,019
1921	48,442.47	1,524,750	3,442	37	1.17	3.2	cents	31,165.17	945,133	636	122	4.08	3.3	cents	72,338.56	130	2,957	24.46	4,208	
Chatsworth—	1917	379.96	4,256	37	10	87	8.9	cents None	253.75	3,980	23	14	92	6.4	cents None	...	...	...	...	60
	1918	445.83	5,409	41	11	95	8.2	cents	259.74	3,542	24	13	92	7.3	cents	726.12	1	30	24.20	66
	1919	601.96	...	46	...	1.09	...	cents	288.85	5,594	20	23	1.20	5.2	cents	622.58	1	23	27.05	67
	1920	724.34	9,279	50	15	1.21	7.8	cents	579.22	7,959	28	24	1.72	7.3	cents	298.26	1	30	...	79
	1921	985.81	10,999	52	18	1.58	9.0	cents	786.28	8,386	27	26	2.43	9.4	cents	619.31	1	30	20.64	80
Chesterville—	1914	530.13	7,672	68	...	...	6.9	cents None	791.67	10,176	35	...	...	7.7	cents None	...	...	...	...	103
	1915	919.27	12,663	85	14	1.00	7.2	cents	1,187.54	12,104	49	21	2.06	9.8	cents	...	...	...	...	134
	1916	1,490.99	15,779	89	17	1.43	9.4	cents	1,240.56	15,179	47	26	2.12	8.2	cents	177.55	1	...	...	137
	1917	1,505.16	18,395	87	17	1.42	8.2	cents	1,226.80	15,360	45	28	2.18	7.9	cents	2,134.49	2	53	40.27	134
	1918	1,485.76	21,485	96	19	1.35	6.9	cents	2,025.36	32,975	48	59	3.63	6.1	cents	3,520.13	2	95	37.05	146
	1919	1,815.29	40,414	115	28	1.31	4.7	cents	2,501.13	46,706	39	98	5.34	5.4	cents	3,984.91	2	124	32.13	156
	1920	2,618.21	39,488	126	26	1.73	6.6	cents	3,085.60	47,642	47	84	5.47	6.5	cents	6,955.75	2	186	37.40	175
	1921	3,559.07	45,564	143	27	2.07	7.8	cents	2,923.10	...	56	...	4.35	...	cents	6,133.40	3	183	...	202

STATEMENT "D"—Continued

Showing Comparative Revenue, Number of Consumers, Total Kw-hr. Consumption, Domestic and Commercial Light, Average Monthly Consumption per Consumer, Average Monthly Bill, and Net Cost per Kw-hr. for the Years 1912, 1913, 1914, 1915, 1916, 1917, 1918, 1919, 1920 and 1921; also Average Horsepower Sold and Average Cost per Horsepower per Year to Power Consumers.

Municipality	Year	Domestic Light							Commercial Light							Power					
		Revenue	Consumption	Number of Consumers	Avg Monthly Consumption	Average Monthly Bill	Net Cost per Kw-hr.	Net Cost prior to Hydro	Revenue	Kw-hrs.	Consumption	Number of Consumers	Avg Monthly Consumption	Average Monthly Bill	Net Cost per Kw-hr.	Net Cost prior to Hydro	Revenue	Number of Consumers	Average Horsepower	Average Cost per Horsepower	Total Number Consumers
Cookstown—	1918	259.56	12,488	42	17	1.10	6.5	None	82.15	4,069	18	12	18	1.15	6.4	None	754.50	1	40.33	38	55
	1919	806.46	18,047	61	21	1.63	7.7		263.18	5,809	21	19	23	1.86	8.1		1,335.27	1	40.41	74	81
	1920	1,388.97	20,562	76	23	1.96	8.7		468.63	8,093	23	21	28	2.39	8.7		1,669.48	1	41.46	10	93
	1921	1,797.47							705.24								1,890.50	2			101
Creemore—	1915	699.81	6,399	78	14	1.00	10.9	Flat	937.84	7,653	59	44	15	1.72	11.9	Flat	939.20	1			138
	1916	922.41	9,678	78	14	1.11	10.5		1,041.90	18,745	55	44	19	1.91	10.1		1,151.96	2			132
	1917	973.25	9,257	69	11	1.11	10.5		1,124.74	11,105	51	16	1.72	10.6			1,210.57	3	54.22	42	127
	1918	1,070.46	10,159	88	10	1.13	10.4		1,098.57	10,328	53	20	2.05	10.4			1,357.87	3	54.25	14	142
	1919	1,229.29	10,812	93	10	1.11	11.1		1,302.94	12,642	52	23	2.26	9.7			1,392.15	5	62.22	45	151
Dashwood—	1919	1,448.31	15,168	130	10	93	9.3		1,413.24	14,558	55	29	2.39	8.7			1,516.26	6	68.22	30	188
	1920	1,808.03		111		1.36			1,683.94	19,383							1,422.65	6	69.20	62	172
Delaware—	1918	432.06	3,742	31	8	92	11.5	Flat	311.16	2,780	15	12	1.38	11.0	Flat		2,386.71	1	46.51	88	47
	1919	462.51	4,539	35	11	1.10	10.2		373.22	3,054	18	14	1.73	12.2			2,052.60	2	53.88	73	55
	1920	578.84	6,017	39	13	1.26	9.6		408.21	3,870	21	15	1.62	10.1			1,524.60	2	52.29	32	62
	1921	662.20	7,502	43	14	1.20	8.8		484.77	3,616	22	12	1.84	13.4			1,626.21	2	54.30	11	67
Delaware—	1915	146.16		22				None	114.18		10	10	1.07	7.8	None			1			33
	1916	354.60	2,835	23	11	1.35	12.5		141.64	1,823	12	14	1.21	10.5							35
	1917	260.94	2,596	24	9	91	10.1		203.25	1,947	12	14	1.64	9.0							36
	1918	277.27	3,472	31	10	84	7.9		177.94	1,960	6	18	1.64	9.0							37
	1919	457.11	3,799	32	10	1.19	11.0		156.00	1,781	11	16	1.18	11.0							43
	1920	852.14	6,285	34	15	2.09	13.5		171.50	2,962	11	22	1.28	5.8							45
	1921	822.74	10,545	42	21	1.63	7.8		505.52	3,987	12	28	3.51	12.7							54

Dorchester—	1915	579.23	6,840	61	.....	.....	8.5	None	309.88	4,806	18	.....	.....	6.4	None	287.95	2	.....	.....	81
	1916	613.03	7,329	61	1.84	8.4	.....	.....	275.82	4,879	16	19	1.35	5.7	.....	667.93	2	.....	.....	79
	1917	768.08	10,046	70	13	98	7.6	.....	177.25	2,583	11	17	1.14	6.9	.....	314.48	2	.....	.....	83
	1918	810.17	9,895	76	11	92	8.1	.....	188.33	2,710	13	18	1.30	6.9	.....	34.81	1	.....	.....	90
	1919	1,043.54	11,187	84	11	1.04	9.3	.....	281.20	2,985	14	18	1.67	9.4	.....	47.14	2	.....	.....	100
	1920	1,274.20	14,260	96	12	1.11	8.9	.....	345.51	5,428	15	30	1.92	6.4	.....	398.94	3	.....	.....	114
	1921	1,511.61	23,328	97	20	1.28	6.5	.....	473.05	10,760	15	60	.....	.....	.....	544.88	3	37	.....	115
Drayton—	1918	942.09	.....	83	.....	.....	.....	Flat	580.32	.....	40	.....	.....	.....	Flat	1,256.17	2	.....	.....	125
	1919	1,431.29	11,060	89	11	1.34	12.9	.....	973.35	7,450	42	15	1.93	13.1	.....	1,542.15	1	43	35.86	132
	1920	1,582.55	20,312	110	15	1.20	7.8	.....	1,250.48	15,960	30	44	3.47	7.8	.....	54.57	2	28	34.09	142
	1921	1,925.38	25,263	106	20	1.58	7.6	.....	1,337.86	19,850	42	40	2.68	6.7	.....	1,223.58	2	37	33.07	.....
Dresden—	1915	1,093.68	.....	185	.....	.....	.....	Flat	1,223.25	.....	109	.....	.....	.....	Flat	.....	.....	.....	.....	294
	1916	1,995.51	26,477	197	12	87	7.5	.....	1,986.21	30,352	103	24	1.54	6.5	.....	.....	.....	.....	.....	303
	1917	2,158.62	28,977	206	12	87	7.4	.....	1,983.96	28,874	105	23	1.57	6.9	.....	102.4	1	520.58	.....	312
	1918	2,308.18	31,560	209	12	92	7.3	.....	2,254.48	31,305	107	24	1.77	7.2	.....	1,198.59	2	5521.79	.....	318
	1919	2,711.78	40,529	236	14	97	6.7	.....	2,730.58	44,775	109	34	2.09	6.1	.....	5,749.20	7	156	36.85	352
	1920	3,165.58	49,650	244	17	1.08	6.4	.....	2,941.56	52,213	106	41	2.31	5.6	.....	6,765.64	8	206	32.84	358
	1921	3,475.26	60,061	256	20	1.13	5.8	.....	2,808.43	59,402	107	46	2.19	4.7	.....	5,711.52	12	223	25.61	375
Drumbo—	1915	304.49	.....	40	.....	.....	.....	None	288.99	.....	30	.....	.....	.....	None	159.85	1	.....	.....	71
	1916	340.75	4,481	35	10	.....	7.5	.....	277.43	3,718	22	15	1.12	7.6	.....	116.57	.....	.....	.....	57
	1917	350.11	4,298	38	10	81	8.1	.....	301.20	4,084	22	15	1.14	7.4	.....	.....	.....	.....	.....	60
	1918	392.90	4,592	44	9	79	8.5	.....	299.10	3,923	22	14	1.13	7.6	.....	43.15	1	221.57	.....	67
	1919	525.50	6,384	48	11	91	8.2	.....	464.76	6,525	23	25	1.70	7.1	.....	199.96	1	1020.00	.....	72
	1920	722.83	7,484	53	12	1.13	9.6	.....	674.50	8,686	24	30	2.34	7.8	.....	109.84	1	618.30	.....	78
	1921	949.84	8,490	54	13	1.47	11.2	.....	671.94	8,500	24	29	2.33	7.9	.....	312.34	1	.....	.....	79
Dublin—	1918	126.62	.....	9	.....	.....	.....	None	257.07	.....	17	.....	.....	.....	None	959.99	2	.....	.....	28
	1919	186.54	2,400	13	15	1.20	7.8	.....	352.06	4,660	18	22	1.63	7.6	.....	826.23	2	29	28.49	33
	1920	393.82	5,312	21	21	1.56	7.4	.....	423.54	5,249	15	28	2.35	8.4	.....	1,095.00	3	34	32.21	39
	1921	503.50	5,920	21	23	1.99	8.5	.....	562.44	5,816	19	24	2.47	9.7	.....	1,172.31	2	37	31.68	43
Dundalk—	1916	924.30	.....	88	.....	.....	.....	Flat	930.58	.....	63	.....	.....	.....	Flat	618.52	2	.....	.....	153
	1917	926.52	12,065	80	12	92	7.7	.....	872.71	12,718	76	15	1.05	6.9	.....	876.00	4	27	.....	160
	1918	942.02	14,698	91	14	91	6.1	.....	822.35	13,053	60	16	1.01	6.3	.....	1,772.75	4	82	21.61	155
	1919	1,024.86	16,892	99	14	86	6.1	.....	951.61	17,053	71	20	1.12	5.6	.....	2,306.00	4	94	24.54	174
	1920	1,328.45	19,775	99	17	1.12	6.7	.....	1,284.67	21,418	75	24	1.43	6.0	.....	2,208.80	3	85	25.99	177
	1921	1,597.79	18,834	106	15	1.24	8.5	.....	1,680.40	29,030	77	31	1.82	5.8	.....	2,558.03	3	84	30.45	186

STATEMENT "D"—Continued

Showing Comparative Revenue, Number of Consumers, Total Kw-hr. Consumption, Domestic and Commercial Light, Average Monthly Consumption per Consumer, Average Monthly Bill, and Net Cost per Kw-hr. for the Years 1912, 1913, 1914, 1915, 1916, 1917, 1918, 1919, 1920 and 1921; also Average Horsepower Sold and Average Cost per Horsepower per Year to Power Consumers.

Municipality	Year	Domestic Light						Commercial Light						Power				Total Number Consumers				
		Revenue \$ c.	Kw-hrs.	Consumption	Number of Consumers	Av'g Monthly Consumption kw-hr	Average Monthly Bill \$ c.	Net Cost per Kw-hr. cents	Net Cost prior to Hydro cents	Revenue \$ c.	Kw-hrs.	Consumption	Number of Consumers	Av'g Monthly Consumption kw-hr	Average Monthly Bill \$ c.	Net Cost per Kw-hr. cents	Net Cost prior to Hydro cents		Revenue \$ c.	Number of Consumers	Average Horsepower	Average Cost per Horsepower \$ c.
Dundas—	1913	3,045.85	.....	.....	377	.....	.....	.....	10+25	4,193.27	.....	134	.....	.....	.....	.....	10+25	3,070.40	27	.....	.....	538
	1914	5,349.24	92,168	.....	520	19	99	5.8	.....	4,198.64	119,947	153	69	2.44	3.5	.....	.....	4,305.96	30	.....	.....	703
	1915	6,139.97	128,600	.....	613	19	90	4.8	.....	4,310.96	157,477	160	84	2.29	2.7	.....	.....	5,930.54	37	.....	.....	810
	1916	6,925.46	146,710	.....	673	19	89	4.8	.....	4,714.78	179,151	168	91	2.39	2.6	.....	.....	10,915.58	35	.....	.....	876
	1917	8,335.64	217,654	.....	783	25	95	3.8	.....	4,190.60	154,950	175	75	2.04	2.7	.....	.....	10,284.87	38	659	15.61	996
	1918	9,361.34	262,147	.....	861	26	95	4.4	.....	4,428.66	192,116	170	92	2.14	2.3	.....	.....	9,077.00	42	590	15.38	1,073
	1919	10,447.60	255,119	.....	631	34	1.40	4.1	.....	5,111.72	213,941	145	123	2.77	2.3	.....	.....	13,861.02	38	839	16.52	814
	1920	8,244.97	423,784	.....	754	47	91	1.9	.....	5,239.16	259,955	158	137	2.76	2.0	.....	.....	21,725.24	42	1,128	19.26	954
	1921	11,047.75	426,368	.....	848	42	1.09	2.6	.....	6,174.18	276,662	170	136	3.03	2.2	.....	.....	21,717.63	50	1,074	20.22	1,068
Dunville—	1918	3,200.84	26,019	.....	143	.....	.....	.....	Flat	3,576.93	47,778	108	.....	.....	.....	.....	Flat	641.00	7	49	.....	258
	1919	2,540.80	62,366	.....	171	30	1.24	4.1	.....	5,352.52	128,280	134	80	3.33	4.2	.....	.....	4,649.29	15	182	25.55	320
	1920	3,227.66	69,303	.....	205	28	1.31	4.6	.....	6,115.30	158,031	141	93	3.61	3.9	.....	.....	5,832.55	16	228	25.58	362
	1921	3,982.33	88,049	.....	242	30	1.37	4.5	.....	6,971.57	192,158	142	113	4.09	3.6	.....	.....	5,881.01	17	233	25.24	401
	Durham—	1916	1,518.72	17,091	155	8.9	Flat	1,057.33	13,949	67	8.8	Flat
1917		1,619.86	12,821	.....	170	6	79	12.6	.....	954.19	21,855	71	26	1.12	4.3	.....	.....	30.00	1	.....	.....	242
1918		1,812.80	20,682	.....	183	9	85	8.7	.....	1,067.28	16,616	82	19	1.24	6.4	.....	.....	782.44	1	50	15.68	266
1919		2,168.82	29,500	.....	200	12	90	7.4	.....	1,486.18	27,215	83	24	1.50	6.3	.....	.....	713.92	1	50	14.27	284
1920		3,095.24	45,075	.....	223	17	1.15	6.7	.....	2,182.30	37,720	86	37	2.11	5.8	.....	.....	2,430.41	6	116	20.95	316
1921		4,071.98	60,400	.....	252	20	1.35	6.7	.....	2,774.44	40,595	87	39	2.66	6.8	.....	.....	8,893.04	8	280	31.77	347
Dutton—		1915	318.85	3,970	108	8.0	Flat	206.59	2,818	43	7.3	Flat	1	.....	.....	152
	1916	1,353.04	17,243	.....	112	13	1.03	7.8	.....	960.27	13,256	52	23	1.34	7.2	.....	.....	135.31	1	.....	.....	165
	1917	1,381.08	17,710	.....	114	13	1.02	7.8	.....	967.98	15,954	54	26	1.49	6.7	.....	.....	73.76	1	10	.....	169
	1918	1,420.59	18,079	.....	127	12	98	7.8	.....	1,007.14	15,728	62	22	1.44	6.4	.....	.....	1,001.85	3	45	22.26	192
	1919	1,640.83	23,705	.....	139	14	99	6.9	.....	1,105.10	20,094	70	24	1.32	5.5	.....	.....	2,539.93	3	83	30.60	212
	1920	1,835.49	26,088	.....	155	14	99	7.0	.....	1,324.59	25,045	71	29	1.73	5.3	.....	.....	2,359.98	3	89	26.52	229
	1921	2,035.51	38,559	.....	159	20	1.07	5.3	.....	1,410.52	32,815	75	40	1.57	4.0	.....	.....	2,483.44	3	93	26.70	237

Elmira—	1914	1,908.41	20,875	158	.....	9.5	11.4+	2,020.81	28,490	65	.....	7.1	11.4+	1,876.49	8	.....	231
	1915	2,059.11	27,576	185	13	1.00	7.5	1,674.44	28,368	85	32	1.85	5.9	2,801.33	10	.....	280
	1916	2,211.16	30,817	233	12	88	7.2	1,665.69	35,515	92	33	1.56	4.7	3,635.22	12	.....	338
	1917	2,383.62	38,918	238	14	84	6.1	1,854.47	47,159	91	43	1.70	3.9	3,613.47	13	162 22 31	342
	1918	2,701.28	51,735	243	17	93	5.2	1,988.36	54,317	89	50	1.84	3.6	4,277.44	14	169 25 31	346
	1919	3,206.49	68,574	269	21	98	4.7	2,207.99	68,820	79	73	2.33	3.2	4,621.96	13	196 23 58	361
	1920	4,582.08	123,941	313	33	1.22	3.7	2,821.51	82,169	94	73	2.50	3.4	6,117.79	15	235 26 03	422
	1921	5,990.36	191,037	348	46	1.43	3.1	3,082.61	95,700	98	81	2.62	3.2	8,020.20	22	416 19 28	468
Elmvale—	1913	284.34	.....	52	.....	.....	.....	358.60	.....	52	.....	.....	None	.....	1	.....	105
	1914	673.18	6,856	57	10	1.03	9.9	896.11	15,402	48	25	1.49	5.8	438.38	2	.....	107
	1915	704.12	7,728	78	10	87	9.1	778.93	16,193	64	25	1.16	3.9	1,186.44	2	.....	144
	1916	816.74	10,562	81	11	85	7.7	736.74	18,644	62	25	97	5.0	1,043.96	3	.....	146
	1917	881.20	11,868	89	11	86	7.4	696.79	13,041	61	19	95	5.3	810.96	3	.....	153
	1918	941.28	12,895	91	11	87	7.2	873.52	16,755	57	23	1.23	5.2	3,609.00	4	159 23 26	152
	1919	1,027.05	13,781	98	12	87	7.2	1,030.63	18,028	57	26	1.51	5.8	3,860.83	5	145 26 63	160
	1920	1,313.94	16,383	101	13	1.08	8.0	1,120.45	22,548	63	30	1.48	4.9	3,722.19	5	149 24 98	169
	1921	1,491.09	17,927	100	15	1.24	8.3	1,501.27	21,738	64	28	1.96	6.9	4,239.56	7	168 25 24	171
Elmwood—	1918	282.62	.....	30	.....	.....	.....	83.93	.....	15	.....	.....	None	.....	1	.....	46
	1919	467.59	6,266	32	16	1.22	7.5	196.91	2,858	17	14	96	6.9	1,429.31	1	47 30 41	50
	1920	592.57	7,950	33	20	1.50	7.4	351.78	5,273	19	24	1.63	6.8	1,514.17	1	46 33 00	53
	1921	762.83	8,570	38	19	1.67	8.9	545.58	5,970	17	29	2.67	9.1	1,802.31	1	47 38 35	56
Elora—	1915	1,044.49	14,009	89	.....	.....	7.4	1,820.07	25,431	60	.....	.....	10+25	197.78	1	.....	150
	1916	1,253.03	20,500	105	18	1.08	6.1	1,828.25	27,945	63	38	2.48	6.5	972.12	2	.....	170
	1917	1,400.12	31,600	123	23	1.02	4.4	1,937.30	40,200	64	52	2.52	4.8	3,640.75	2	120 30 34	189
	1918	1,537.70	28,173	134	18	99	5.4	1,765.65	34,357	59	46	2.39	5.1	5,087.10	2	162 31 40	195
	1919	1,809.72	34,910	139	21	1.09	5.2	2,093.34	45,935	65	59	2.65	4.5	7,440.12	3	242 30 74	209
	1920	2,256.60	49,514	186	22	1.01	4.6	2,362.02	57,754	70	69	2.81	4.1	6,997.35	3	212 33 01	257
	1921	2,590.55	61,731	205	25	1.05	4.2	2,394.68	52,436	68	64	2.94	4.6	6,144.11	3	215 28 58	276
Embro—	1915	400.50	.....	65	.....	.....	.....	489.67	.....	30	.....	.....	None	.....	.....	.....	95
	1916	633.95	5,690	58	7	85	11.1	598.41	10,333	29	29	1.66	5.8	155.54	2	.....	89
	1917	664.53	5,391	60	8	94	12.3	522.37	6,322	31	18	1.45	8.2	132.76	2	.....	93
	1918	708.60	6,811	64	9	95	10.4	603.76	5,708	36	14	1.50	10.5	267.29	3	13 20 56	103
	1919	963.98	10,443	66	13	1.22	9.2	809.77	8,631	35	20	1.93	9.4	979.29	3	34 28 80	104
	1920	1,189.47	11,670	71	14	1.40	10.0	1,073.32	8,358	31	22	1.88	12.8	1,722.08	3	51 33 72	105
	1921	1,512.70	13,012	73	15	1.73	11.6	1,234.16	10,559	36	24	2.86	11.7	1,930.84	3	50 38 62	112

STATEMENT "D"—Continued

Showing Comparative Revenue, Number of Consumers, Total Kw-hr. Consumption, Domestic and Commercial Light, Average Monthly Consumption per Consumer, Average Monthly Bill, and Net Cost per Kw-hr. for the Years 1912, 1913, 1914, 1915, 1916, 1917, 1918, 1919, 1920 and 1921; also Average Horsepower and Average Cost per Horsepower per Year to Power Consumers.

Municipality		Domestic Light						Commercial Light						Power						
		Revenue	Consumption	Number of Consumers	Avg Monthly Consumption	Average Monthly Bill	Net Cost per Kw-hr.	Net Cost prior to Hydro	Revenue	Consumption	Number of Consumers	Avg Monthly Consumption	Average Monthly Bill	Net Cost per Kw-hr.	Net Cost prior to Hydro	Revenue	Number of Consumers	Average Horsepower	Average Cost per Horsepower	Total Number Consumers
Year			Kw-hrs.		kw-hr	\$ c.	cents	cents	\$ c.	kw-hr				cents	cents	\$ c.				
Etobicoke—	1918	16,081.39		864		1,816.74	8+25									5,027.80				937
	1919	11,905.18	129,700	1,140		1,567.41				60						5,010.68	13	236	21.23	1,229
	1920	17,352.35	441,178	1,515	24	1.17	4.8			77						5,078.76	12	253	20.07	1,612
	1921	21,326.96				2,734.25				83						5,076.25	14	293	17.21	
Exeter—	1917	2,030.27	25,524	170	13	99	7.9	10+25								2,363.60	3	92	25.69	260
	1918	2,327.79	29,434	187	14	1.10	7.9									4,163.70	3	140	29.74	274
	1919	2,806.26	41,835	211	6	1.11	6.9									4,159.40	5	143	29.09	304
	1920	3,402.65	50,578	234	18	1.22	6.7									4,398.97	7	162	27.16	335
	1921	4,196.23	88,361	278	26	1.26	4.7									4,916.13	7	182	27.01	375
Fergus—	1915	1,314.03	19,328	114			6.8	10+25								882.24	7			212
	1916	1,621.27	24,275	149	16	1.03	6.7									2,819.21	7			248
	1917	1,822.14	29,351	177	15	93	6.2									1,959.57	8	67	29.25	278
	1918	2,086.39	42,774	198	19	92	4.8									3,332.50	10	125	26.66	295
	1919	2,629.72	47,157	212	19	1.03	5.5									3,573.66	10	153	23.36	308
Flesherton—	1920	3,030.75	58,538	291	17	87	5.2									3,522.57	12	152	23.17	399
	1921	4,072.20	70,683	310	19	1.10	5.7									4,191.93	15	224	18.71	425
	1916	568.76		73				None												103
	1917	621.93	8,364	70	9	74	7.4													101
	1918	593.44	8,116	52	11	81	9.3													81
	1919	725.42		70																109
	1920	1,152.24		85		1.13														125
	1921	1,585.13	17,321	85	17	1.55	9.1													123

STATEMENT "D"—Continued

Showing Comparative Revenue, Number of Consumers, Total Kw-hr. Consumption, Domestic and Commercial Light, Average Monthly Consumption per Consumer, Average Monthly Bill, and Net Cost per Kw-hr. for the Years 1912, 1913, 1914, 1915, 1916, 1917, 1918, 1919, 1920 and 1921; also Average Horsepower Sold and Average Cost per Horsepower per Year to Power Consumers.

Municipality	Year	Domestic Light						Commercial Light						Power						
		Revenue	Consumption	Number of Consumers	Avg Monthly Consumption	Average Monthly Bill	Net Cost per Kw-hr.	Net Cost prior to Hydro	Revenue	Consumption	Number of Consumers	Avg Monthly Consumption	Average Monthly Bill	Net Cost per Kw-hr.	Net Cost prior to Hydro	Revenue	Number of Consumers	Average Horsepower	Average Cost per Horsepower	Total Number Consumers
Grand Valley—																				
1917		\$ 714.68	7,474	55	11	1.08	9.6	cents	10,065	54	10	1.50	9.6	cents	10+25	\$	1			110
1918		848.56	10,089	58	14	1.25	8.4		11,113	48	18	1.58	8.7		10+25	1,581.78	1	38	41.62	108
1919		1,110.28	14,172	69	15	1.34	8.8		11,582	48	20	1.55	7.8		10+25	1,582.91	1	48	32.97	117
1920		1,725.49	19,477	87	19	1.65	8.8		16,388	50	27	2.47	9.1		10+25	1,631.54	1	48	33.99	138
1921		2,202.44	23,149	98	20	1.87	9.5		17,781	53	28	3.40	12.1		10+25	1,869.20	2	53	35.27	153
Granton—																				
1917		484.69	5,782	42	12	96	8.4		1,774	16			10.0	None		333.85	1			59
1918		552.01	5,580	48	10	1.02	9.8		1,690	18	8	.99	12.0			1,396.61	1	47	29.71	67
1919		661.90	7,000	51	11	1.08	9.4		1,750	21	7	1.05	15.2			1,321.67	1	41	32.23	73
1920		886.41	11,599	57	18	1.49	7.9		5,355	21	21	1.60	7.6			1,562.80	2	45	34.73	80
1921		1,085.25	15,898	63	21	1.44	6.8		6,265	22	24	1.93	8.1			1,747.17	2	42	41.60	87
Gravenhurst—																				
1917		2,350.79	39,025	251	13	78	6.0		171,716	69	207	5.33	2.6	Flat		4,892.05	9	292	16.76	329
1918		1,995.82	37,930	264	12	64	5.2		141,329	59	184	5.89	3.2			4,786.06	8	352	13.59	331
1919		2,326.25	51,625	269	16	72	4.5		196,134	74	221	5.52	2.5			4,991.09	10	313	15.94	353
1920		2,832.40		290		81			4,762.31	80						6,576.74	12			382
1921		4,219.34	69,942	294	20	1.20	6.0		6,239.31	75	238	6.93	2.9			5,528.86	12	213	25.96	381
Guelph—																				
1912		10,251.87		960				8+25								30,139.00	73			1,378
1913		11,528.07	224,373	1,260	17	87	5.2		287,561	400	67	3.38	5.2			42,091.34	85			1,745
1914		16,920.54	286,032	1,573	17	1.00	5.9		325,080	441	65	3.16	4.9			38,148.46	80			2,094
1915		15,514.10	366,928	1,824	18	76	4.2		437,567	474	83	2.32	2.8			38,404.28	81			2,379
1916		17,221.76	469,528	2,033	20	74	3.7		522,526	490	91	2.36	2.6			48,369.83	86			2,609
1917		19,379.44	594,936	2,202	23	77	3.3		576,911	505	97	2.31	2.4			57,380.71	87			2,794
1918		21,594.80	666,422	2,380	24	78	3.2		589,498	512	96	2.14	2.2			62,480.67	83			2,975
1919		25,157.62	862,801	2,677	27	89	3.3		783,989	529	123	2.44	2.0			54,810.39	89			3,295
1920		30,371.10	1,152,485	3,064	32	83	2.6		905,198	548	138	2.97	2.2			69,534.96	93			3,705
1921		38,421.71	1,422,305	3,292	36	97	2.7		987,198	579	142	3.37	2.4			72,549.55	90			3,961

STATEMENT "D"—Continued

Showing Comparative Revenue, Number of Consumers, Total Kw-hr. Consumption, Domestic and Commercial Light, Average Monthly Consumption per Consumer, Average Monthly Bill, and Net Cost per Kw-hr. for the Years 1912, 1913, 1914, 1915, 1916, 1917, 1918, 1919, 1920 and 1921; also Average Horsepower Sold and Average Cost per Horsepower per Year to Power Consumers.

Municipality	Domestic Light						Commercial Light						Power				Total Number Consumers			
	Revenue	Consumption	Number of Consumers	Avg Monthly Consumption	Average Monthly Bill	Net Cost per Kw-hr.	Net Cost prior to Hydro	Revenue	Consumption	Number of Consumers	Avg Monthly Consumption	Average Monthly Bill	Net Cost per Kw-hr.	Net Cost prior to Hydro	Revenue	Number of Consumers		Average Horsepower	Average Cost per Horsepower	
Hesper—	1913	2,189.00	34,848	174	14	1.09	7.6	10+15	1,684.75	76	76	37	2.00	5.4	10+15	5,044.30	11			261
	1914	2,635.41	39,580	229	11	1.09	7.0		1,934.75	85	85	38	2.22	5.9		6,116.27	13			327
	1915	2,787.48	54,239	272	17	1.09	5.5		2,334.15	90	90	43	1.93	4.5		9,017.58	14			376
	1916	3,011.73	66,932	277	17	1.04	5.5		2,012.28	84	84	43	2.18	4.5		11,177.71	12			273
	1917	3,679.79	77,373	312	19	1.04	4.9		2,389.80	86	86	52	2.18	4.5		10,166.33	11	394	25.80	409
	1918	3,835.53	92,959	336	19	1.04	4.6		2,024.34	83	83	48	1.99	4.0		9,186.68	13	337	25.73	432
	1919	4,286.70	107,373	374	21	1.04	4.6		2,194.16	84	84	68	2.18	3.2		6,554.78	11	299	21.92	469
	1920	5,626.85	137,540	442	26	1.06	4.1		2,414.32	89	89	65	2.26	3.5		8,162.54	13	410	19.90	544
	1921	6,648.35	178,741	480	31	1.15	3.7		2,803.97	95	95	74	2.46	3.2		7,239.45	17	387	18.71	592
Higbgate—	1917	416.49	4,447	41	9	85	9.4	None	467.76	21	21	17	1.86	10.7	None		1			63
	1918	456.79	5,342	45	10	88	8.5		502.27	25	25	17	1.81	10.2		2,556.33	3	76	33.63	73
	1919	618.65	6,410	51	11	1.01	9.2		598.12	29	29	21	1.72	8.3		2,071.70	3	79	26.22	83
	1920	861.91	9,042	59	14	1.22	8.7		738.31	30	30	23	2.05	8.9		1,675.67	6	70	23.94	95
	1921	1,065.47	11,736	61	16	1.46	9.1		879.37	31	31	34	2.36	7.0		1,318.16	6	39	33.80	98
Holstein—	1917	238.48	2,366	26	8	86	10.1	None	209.74	15	15	15	1.17	7.9	None					41
	1918	256.54	1,957	27	6	80	13.1		263.55	16	16	13	1.41	10.5						43
	1919	308.37	2,899	28	9	92	10.6		228.57	18	18	14	1.06	7.5		752.37	1	27	27.87	47
	1920	459.38	5,368	29	16	1.32	8.5		405.80	18	18	13	1.88	14.1		109.47	1	7	15.63	48
	1921	510.16	3,864	27	12	1.57	13.2		472.86	18	18	18				215.76	1	7	30.82	46
Huntsville—	1917	3,597.74		270				10	1,265.03	82						13,569.75	3			355
	1918	3,614.59	41,768	272	12	1.11	8.6		1,802.91	83						13,881.58	3			358
	1919	4,899.77	97,860	276	30	1.50	5.0		1,862.04	66						14,605.94	7			349
	1920	6,953.49	141,862	335	35	1.73	4.9		3,233.63	93						15,311.98	6	832	18.40	434
	1921	8,380.90							4,325.78							14,445.74	7	883	16.36	

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STATEMENT "D"—Continued

Showing Comparative Revenue, Number of Consumers, Total Kw-hr. Consumption, Domestic and Commercial Light, Average Monthly Consumption per Consumer, Average Monthly Bill, and Net Cost per Kw-hr. for the Years 1912, 1913, 1914, 1915, 1916, 1917, 1918, 1919, 1920 and 1921; also Average Horsepower and Average Cost per Horsepower per Year to Power Consumers.

Municipality	Domestic Light					Commercial Light					Power									
	Revenue	Consumption	Number of Consumers	Avg Monthly Consumption	Average Monthly Bill	Net Cost per Kw-hr.	Net Cost prior to Hydro	Revenue	Kw-hrs.	Consumption	Number of Consumers	Avg Monthly Consumption	Average Monthly Bill	Net Cost per Kw-hr.	Net Cost prior to Hydro	Revenue	Number of Consumers	Average Horsepower	Average Cost per Horsepower	Total Number Consumers
Midland—																				
1912	5,878.05		420	16	1.11	6.9	9	5,878.05	118,267	165	165	58	3.01	5.1	9	3,188.03	18			603
1913	6,095.11	88,228	491	19	1.06	5.5		6,104.16	117,741	172	172	56	2.44	4.3		5,700.22	25			688
1914	6,941.07	127,397	621	19	1.06	5.5		5,084.06	117,741	176	176	56	2.44	4.3		6,484.43	32			829
1915	6,580.45	199,257	689	25	84	3.3		4,462.54	97,300	188	188	45	2.05	4.6		10,229.52	39			916
1916	7,145.74	180,735	732	21	83	4.0		4,624.85	186,953	184	184	84	2.07	2.5		12,262.89	31			947
1917	9,179.72	289,874	822	31	98	3.2		5,651.06	257,868	186	186	116	2.55	2.2		15,300.91	35	714	21.43	1,043
1918	10,341.29	366,760	937	34	98	2.8		6,149.35	264,733	195	195	115	2.69	2.3		24,529.03	38	1,160	21.14	1,170
1919	11,542.33	403,890	1,050	32	92	2.8		5,303.02	254,832	237	237	90	1.86	2.1		22,070.30	34	790	27.93	1,321
1920	16,362.07	584,357	1,091	45	1.25	2.8		7,435.12	275,534	191	191	120	3.24	1.7		18,060.43	40	1,245	14.51	1,322
1921	20,140.29	808,893	1,171	58	1.43	2.5		8,618.18	360,993	202	202	149	3.55	2.4		22,464.55	51	1,265	17.76	1,424
Milton—																				
1913	1,149.28		110				10	1,212.26		74	74	44	2.43	5.4	10	6,462.38	5			189
1914	1,961.22	25,649	150	19	1.51	7.6		2,226.80	41,015	79	79	44	2.00	4.6		11,325.61	6			235
1915	1,981.80	28,900	170	15	1.03	6.8		1,900.98	41,520	80	80	44	2.00	4.6		5,364.29	7			257
1916	2,219.28	36,573	197	16	1.01			1,892.21	44,445	84	84	45	1.93			10,428.79	6			287
1917	2,528.88	50,695	174	24	1.11	5.0		1,863.60	34,859	70	70	44	2.21	5.4		7,968.76	6	309	25.79	250
1918	2,852.66	64,485	227	27	1.18	4.4		1,759.69	35,451	73	73	41	2.05	4.9		6,497.73	7	333	19.51	307
1919	3,908.62	149,879	276	45	1.18	2.6		2,041.31	42,493	76	76	47	2.22	4.8		11,109.72	12	234	47.48	364
1920	4,099.80	105,398	289	30	1.16	3.9		2,365.05	60,519	76	76	66	2.60	3.9		15,142.22	13	733	20.66	378
1921	4,502.81	126,039	315	33	1.19	3.6		2,531.11	61,661	82	82	58	2.41	4.1		16,596.71	20	702	23.64	417
Mitchell—																				
1912	2,964.48		159				Flat	2,977.08		79	79				Flat	4,597.03	13			251
1913	2,362.52		179					2,813.92		85	85					6,160.53	16			270
1914	2,470.29		191					2,712.55		100	100					3,944.91	16			307
1915	2,379.58		190					2,684.01		95	95					2,333.08	17			292
1916	2,311.80	33,759	218	14	95	6.8		2,677.35	39,211	103	103	33	2.25	6.8		3,231.56	21			342
1917	2,572.51	41,022	212	16	1.01	6.3		2,774.59	49,323	104	104	39	2.22	5.6		4,169.05	22	167	24.96	338
1918	2,730.62	46,956	217	18	1.06	5.8		2,944.34	51,294	102	102	41	2.38	5.7		4,834.06	22	190	25.44	341
1919	2,816.95	41,556	266	13	88	6.8		3,136.32	51,396	105	105	41	2.49	6.1		4,869.61	21	196	24.84	392
1920	4,183.47	89,601	298	25	1.17	4.7		3,588.97	77,765	106	106	61	2.82	4.6		5,798.65	21	224	25.89	425
1921	4,660.66	101,018	330	24	1.18	4.6		3,101.46	72,737	104	104	58	2.49	4.3		5,542.41	21	228	24.31	455

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STATEMENT "D"—Continued

Showing Comparative Revenue, Number of Consumers, Total Kw-hr. Consumption, Domestic and Commercial Light, Average Monthly Consumption per Consumer, Average Monthly Bill, and Net Cost per Kw-hr. for the Years 1912, 1913, 1914, 1915, 1916, 1917, 1918, 1919, 1920 and 1921; also Average Horsepower Sold and Average Cost per Horsepower per Year to Power Consumers.

Municipality	Year	Domestic Light						Commercial Light						Power						
		Consumption	Number of Consumers	Avg Monthly Consumption	Average Monthly Bill	Net Cost per Kw-hr.	Net Cost prior to Hydro	Revenue	Consumption	Kw-hrs.	Number of Consumers	Avg Monthly Consumption	Average Monthly Bill	Net Cost per Kw-hr.	Net Cost prior to Hydro	Revenue	Number of Consumers	Average Horsepower	Average Cost per Horsepower	Total Number Consumers
Otterville—	1917		42	14	\$ 1.15	7.9	cents None	\$ 290.37	3,665	23	13	1.01	7.4	cents None	\$ 47.44	1	22	22	41.45	66
	1918		47	14	1.15	7.9		272.50	3,665	22	13	1.01	7.4		912.05	2	22	41.45	71	
	1919		62	15	1.16	7.7		440.31	2,350	15	13	2.45			982.80	4	4	37.80	81	
	1920		70	18	1.38	7.8		648.41	7,818	20	33	2.70	8.3		1,770.64	4	4	43	41.18	94
	1921		84	15	1.41	9.4		760.43	7,774	17	33	2.70	8.3		1,401.36	4	4	43	32.59	105
Owen Sound—	1916	225,620	1,376			7.1	6.4+15	23,724.21	388,717	435	67		6.1	6.4+15	13,772.61	83				1,894
	1917	266,322	1,438	16	93	5.9		13,809.15	341,361	419	67	2.71	4.1		28,667.22	84	1,176	24.37	1,941	
	1918	310,256	1,492	17	91	5.1		14,011.58	341,751	403	69	2.84	4.1		32,069.70	84	1,177	27.25	1,979	
	1919	605,348	1,611	31	93	3.0		13,931.89	521,847	418	104	2.78	2.7		23,289.00	92	1,005	23.17	2,121	
	1920	719,181	1,861	32	97	3.0		15,160.58	520,485	449	97	2.81	2.9		24,645.87	105	1,231	20.02	2,415	
1921	700,833	2,075	28	1.06	3.8		16,442.16	730,759	457	133	3.00	2.2		29,116.14	109	1,403	20.75	2,641		
Park Hill—	1920		120				10+52	1,106.09		58				10+25	110.15	1	10		179	
	1921	29,648	146	17	1.74	10.3		2,243.54	17,506	58	24	3.22	12.8		1,186.35	3	29	40.91	207	
Picton—	1919		604				12.5	9,480.61	121,838	75				12.5	1,239.91	26	52	23.84	705	
	1920	123,499	657	16	1.26	8.0		9,641.61	112,546	122	46	3.56	7.8		9,477.94	32	303	31.28	811	
	1921	142,582	698	17	1.41	8.3				156	60	5.15	8.6		12,162.97	31	343	35.46	885	
Palmerston—	1916		151				Flat	282.57		63				Flat		1			215	
	1917		171	16	1.22	7.7		2,780.86	51,029	71	60	3.26	5.5		1,225.68	2	57	21.50	244	
	1918		177	11	1.22	7.7		2,729.69	50,847	69	60	3.24	5.3		1,401.26	2	57	24.58	248	
	1919		213	21	1.27	6.2		3,344.29	54,590	75	61	7.2	6.1		2,161.21	4	85	25.43	292	
	1920		234	36	1.53	4.2		4,036.64	90,508	75	101	4.0	4.5		3,235.10	5	128	25.27	314	
1921	124,636	255	41	1.62	4.0		4,736.84	95,314	80	99	4.93	5.0		4,581.69	6	171	26.79	341		

Paris—	1914	4,766.23	65,037	354	.....	.....	7+10	2,778.09	65,108	142	.....	.....	4.3	8+20	1,419.90	1	497
	1915	5,071.54	87,239	477	17	1.01	5.8	4,063.03	100,259	150	57	2.32	4.1	.....	6,328.33	4	631
	1916	5,877.57	127,382	552	21	96	4.6	3,805.95	96,750	150	53	2.11	3.9	.....	8,974.66	4	706
	1917	6,620.91	155,986	581	23	98	4.2	4,303.71	105,150	161	56	2.31	4.0	.....	8,828.42	5	747
	1918	7,839.11	155,406	625	21	1.08	5.0	4,339.77	86,904	162	44	2.23	4.9	.....	12,951.24	8	795
	1919	7,447.39	237,276	663	30	94	3.1	4,436.78	90,539	168	45	2.20	4.9	.....	14,226.43	12	843
	1920	7,696.27	237,103	757	26	85	3.2	4,411.23	.....	182	.....	2.02	.....	.....	16,414.88	13	952
	1921	9,368.93	366,497	875	35	90	2.5	4,532.48	173,264	188	77	2.01	2.6	.....	16,844.82	18	1,081
	Penatang—																	
	1912	1,676.26	101	9	3,836.30	87	2,207.51	13	201
1913	1,989.80	27,199	128	19	1.44	7.3	.....	4,511.16	58,111	91	55	4.23	7.7	.....	8,775.95	15	234
1914	1,936.73	35,163	153	21	1.15	5.5	.....	3,064.83	66,489	100	58	2.68	4.6	.....	8,001.69	15	268
1915	2,050.69	42,483	174	22	1.04	4.8	.....	2,676.60	78,657	102	65	2.21	3.4	.....	10,048.08	15	291
1916	2,317.37	49,242	189	23	1.06	4.7	.....	2,706.74	83,448	95	71	2.30	3.2	.....	11,650.03	16	290
1917	2,486.82	62,546	199	27	1.07	4.0	.....	2,677.81	80,783	93	72	2.38	3.3	.....	10,234.73	14	306
1918	2,855.29	76,516	215	30	1.15	3.7	.....	2,363.45	71,085	95	63	2.09	3.0	.....	9,701.55	14	324
1919	3,074.74	83,950	263	27	97	3.6	.....	2,874.63	94,491	107	74	2.24	3.0	.....	15,438.43	19	389
1920	4,971.07	116,449	328	28	1.26	4.5	.....	3,340.35	119,686	91	110	3.06	2.8	.....	22,164.67	25	444
1921	6,714.63	143,891	375	32	1.50	4.7	.....	3,798.95	96,932	89	91	3.56	3.9	.....	19,645.20	28	492
Peterborough—																		
1914	8,661.71	.....	2,692	.....	.....	.....	Flat	7,749.91	.....	507	.....	.....	.....	Flat	7,013.23	93	3,292
1915	27,998.24	.....	3,221	.....	79	.....	.....	27,563.41	.....	602	.....	4.14	.....	Flat	30,185.83	113	3,936
1916	31,020.72	510,359	3,401	13	78	6.1	.....	26,403.82	467,663	602	65	3.66	5.6	.....	36,597.04	117	4,120
1917	40,043.65	973,937	4,152	22	88	4.1	.....	26,601.65	613,865	671	80	3.49	4.3	.....	46,235.49	122	4,945
1918	43,049.23	1,166,437	4,409	22	83	3.6	.....	24,679.61	883,196	699	107	3.00	2.7	.....	48,055.38	119	5,227
1919	46,282.34	1,378,472	4,257	27	91	3.3	.....	27,616.40	1,207,218	652	164	3.53	2.2	.....	38,930.06	119	5,028
1920	51,291.38	1,659,204	4,463	31	96	3.1	.....	30,144.81	1,595,400	689	193	3.64	1.9	.....	51,072.38	121	5,273
1921	59,506.10	2,027,601	4,663	36	106	2.9	.....	35,364.67	1,964,887	729	225	4.04	1.8	.....	76,195.98	129	5,521
Petrolia—																		
1917	3,346.54	54,138	292	15	95	6.1	14+20	3,837.48	61,972	150	34	2.13	6.2	14+20	6,666.29	34	476	
1918	4,096.58	64,342	315	17	1.12	6.3	.....	4,138.05	64,510	158	34	2.23	6.4	.....	11,491.46	40	513
1919	5,024.22	88,243	367	20	1.14	5.7	.....	4,761.37	81,003	163	41	2.43	5.9	.....	16,712.15	53	583
1920	6,034.68	112,806	427	22	1.18	5.3	.....	5,447.61	94,755	176	45	2.58	5.7	.....	19,193.71	59	662
1921	7,786.04	151,611	503	25	1.29	5.1	.....	6,246.63	105,872	187	47	2.78	5.9	.....	21,483.70	61	751
Perth—																		
1919	8,477.47	137,658	479	24	1.47	6.2	8	6,748.11	143,305	157	76	3.58	4.7	8	8,550.93	15	651	
1920	10,216.95	218,792	564	32	1.51	4.7	.....	7,025.19	122,988	166	62	3.53	5.7	.....	15,648.27	19	749
1921	12,485.61	256,470	610	35	1.71	4.9	.....	8,879.44	142,086	174	68	4.25	6.2	.....	18,021.42	19	803

STATEMENT "D"—Continued

Showing Comparative Revenue, Number of Consumers, Total Kw-hr. Consumption, Domestic and Commercial Light, Average Monthly Consumption per Consumer, Average Monthly Bill, and Net Cost per Kw-hr. for the Years 1912, 1913, 1914, 1915, 1916, 1917, 1918, 1919, 1920 and 1921; also Average Horsepower Sold and Average Cost per Horsepower per Year to Power Consumers.

Municipality	Year	Domestic Light						Commercial Light						Power						
		Revenue	Consumption	Number of Consumers	Avg Monthly Consumption	Average Monthly Bill	Net Cost per Kw-hr.	Net Cost prior to Hydro	Revenue	Consumption	Number of Consumers	Avg Monthly Consumption	Average Monthly Bill	Net Cost per Kw-hr.	Net Cost prior to Hydro	Revenue	Number of Consumers	Average Horsepower	Average Cost per Horsepower	Total Number Consumers
Plattsville—\$ c.																				
1915	551.39	6,061	56	.....	.....	9.1	None	477.71	5,091	20	.....	.....	.....	9.4	None	1,128.27	4	.....	.....	80
1916	666.30	7,422	60	.....	.....	9.0	.....	580.62	5,900	22	14	1.35	9.8	.....	.....	1,436.62	3	.....	.....	85
1917	670.35	7,220	60	.....	.....	9.3	.....	583.58	6,714	22	21	2.21	8.7	.....	.....	768.37	2	37	20.77	84
1918	699.99	9,011	60	.....	.....	9.7	.....	636.88	8,489	23	31	2.35	7.5	.....	.....	1,596.81	2	60	26.60	85
1919	795.79	8,967	62	.....	.....	1.07	8.9	826.27	15,051	27	46	2.40	5.2	.....	.....	3,053.72	2	65	46.98	91
1920	969.31	11,294	65	.....	.....	1.24	8.6	873.81	14,655	26	47	2.80	6.0	.....	.....	3,155.32	3	92	34.30	94
1921	1,066.62	14,362	77	.....	.....	1.15	7.4	706.15	10,570	20	44	2.94	6.7	.....	.....	302.26	2	15	20.15	99
Port Arthur—																				
1913	81,830.66	.....	2,409	.....	.....	.....	8+25	*	.....	500	.....	.....	.....	.....	8+25	51,748.11	55	.....	.....	2,464
1914	38,097.65	.....	2,969	.....	.....	.....	.....	32,933.91	.....	550	.....	.....	.....	.....	.....	92,804.49	55	.....	.....	3,574
1915	32,048.37	.....	2,800	.....	.....	.....	.....	28,662.58	.....	550	.....	.....	.....	.....	.....	85,060.78	50	.....	.....	3,900
1916	31,152.52	.....	2,701	.....	.....	.....	.....	27,439.63	.....	481	.....	.....	.....	.....	.....	96,913.51	46	.....	.....	3,228
1917	33,358.31	.....	2,783	.....	.....	.....	.....	28,235.05	.....	503	.....	.....	.....	.....	.....	111,367.47	42	5,093	21.88	3,328
1918	37,216.29	.....	2,807	.....	.....	3.1	3.2	31,612.57	919,826	535	147	5.07	3.4	.....	.....	142,118.26	42	6,967	20.39	3,384
1919	41,584.37	.....	2,633	.....	.....	3.1	3.1	33,390.02	978,503	625	131	4.45	3.4	.....	.....	168,517.53	58	8,420	20.01	3,316
1920	45,432.34	.....	2,960	.....	.....	1.28	2.8	32,165.55	1,078,290	590	152	4.54	3.0	.....	.....	178,529.32	59	8,983	19.57	3,609
1921	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Port Colborne—																				
1920	4,301.69	101,020	465	.....	.....	1.00	4.2	3,082.14	89,448	132	80	2.25	3.5	4	4	2,718.09	13	140	19.45	610
1921	8,220.47	164,365	579	.....	.....	1.18	5.0	5,125.80	140,397	151	79	2.83	3.6	.....	.....	4,381.18	17	181	24.20	747
Pt. Credit—																				
1913	1,963.22	.....	93	.....	.....	.....	None	*	.....	21	.....	.....	.....	.....	None	848.59	2	.....	.....	116
1914	2,461.42	41,862	125	.....	.....	.....	6.0	*	.....	35	.....	.....	.....	6.0	.....	308.88	2	.....	.....	162
1915	1,975.29	36,484	141	.....	.....	2.24	5.4	587.11	17,934	33	44	1.18	3.3	.....	.....	236.47	3	.....	.....	177
1916	1,781.49	44,251	145	.....	.....	1.04	4.0	464.02	13,800	33	35	1.17	3.3	.....	.....	257.40	3	.....	.....	181
1917	1,822.36	42,378	162	.....	.....	2.98	4.3	452.84	12,833	33	33	1.14	3.5	.....	.....	246.63	3	23	.....	198
1918	2,107.78	58,660	164	.....	.....	1.07	3.5	509.82	15,875	33	40	1.28	3.2	.....	.....	203.48	3	23	.....	200
1919	2,459.05	78,097	182	.....	.....	3.6	3.1	669.12	16,213	39	35	1.43	4.1	.....	.....	245.57	3	23	.....	224
1920	3,173.10	96,791	199	.....	.....	1.33	3.3	1,164.86	46,568	44	81	2.21	2.7	.....	.....	406.02	3	33	12.30	246
1921	3,878.10	130,797	221	.....	.....	1.46	3.0	1,479.06	48,529	42	93	2.77	3.0	.....	.....	1,536.81	6	64	24.01	269

STATEMENT "D"—Continued

Showing Comparative Revenue, Number of Consumers, Total Kw-hr. Consumption, Domestic and Commercial Light, Average Monthly Consumption per Consumer, Average Monthly Bill, and Net Cost per Kw-hr. for the Years 1912, 1913, 1914, 1915, 1916, 1917, 1918, 1919, 1920 and 1921; also Average Horsepower and Average Cost per Horsepower per Year to Power Consumers.

Municipality	Year	Domestic Light						Commercial Light						Power				Total Number Consumers		
		Revenue \$ c.	Kw-hrs.	Number of Consumers	Avg Monthly Consumption kw-hr	Average Monthly Bill \$ c.	Net Cost per Kw-hr. cents	Net Cost prior to Hydro cents	Revenue \$ c.	Kw-hrs.	Number of Consumers	Avg Monthly Consumption kw-hr	Average Monthly Bill \$ c.	Net Cost per Kw-hr. cents	Net Cost prior to Hydro cents	Revenue \$ c.	Number of Consumers		Average Horsepower Horsepower	Average Cost per Horsepower \$ c.
Preston—	1912	4,234.68	83,852	341	16	1.05	6.5	9+20	5,237.99	103,000	131	61	3.18	5.2	9+20	15,478.14	21	.....	492
	1913	5,477.10	108,257	526	14	90	6.0	9+20	5,366.77	106,675	151	56	2.64	4.7	9+20	21,017.68	28	.....	705
	1914	6,520.39	129,896	629	14	16	82	6.1	4,488.76	118,756	165	58	2.21	3.8	9+20	21,975.26	29	.....	823
	1915	6,615.91	129,896	714	16	82	6.1	4,488.76	118,756	174	58	2.21	3.8	9+20	21,698.34	30	.....	918	
	1916	7,341.15	186,361	785	21	82	3.9	4,779.76	155,325	182	72	2.24	3.1	9+20	22,624.37	34	.....	1,001	
	1917	8,956.89	215,302	843	22	91	4.2	5,733.82	159,885	186	72	2.60	3.5	9+20	24,569.60	35	1,353	18.16	1,064	
	1918	8,956.89	215,302	843	22	91	4.2	5,733.82	159,885	186	72	2.60	3.5	9+20	24,569.60	35	1,353	18.16	1,064	
	1919	9,090.16	254,288	871	24	88	3.5	4,981.29	158,257	190	70	2.20	3.1	9+20	23,016.09	37	1,235	18.63	1,098	
	1920	10,345.24	302,252	935	27	92	3.4	6,320.68	227,636	193	97	2.73	2.8	9+20	27,339.13	40	1,505	18.17	1,168	
	1921	11,667.41	411,997	1,010	34	96	2.8	7,902.05	287,866	193	124	3.41	2.7	9+20	29,895.21	41	1,902	15.72	1,244	
	1921	15,234.56	472,870	1,074	37	1.10	3.2	8,008.17	311,846	196	133	3.40	2.6	9+20	32,165.77	42	1,755	18.33	1,312	
Princeton—	1915	440.42	.....	30	.....	.....	.....	None	81.57	.....	15	.....	.....	.....	None	.....	.....	.....	45
	1916	657.80	7,739	44	17	1.48	8.5	.....	127.81	1,278	11	8	83	10.6	.....	192.92	.....	.....	55
	1917	789.51	8,412	46	16	1.46	9.4	.....	178.43	1,290	12	9	1.24	.....	.....	.....	.....	58	
	1918	657.45	6,960	47	12	1.17	9.4	.....	181.19	2,367	12	16	1.25	7.6	.....	.....	.....	59	
	1919	845.12	.....	48	.....	1.47	.....	.....	229.56	.....	12	.....	1.60	.....	.....	.....	.....	60	
	1920	1,104.05	.....	64	.....	1.45	.....	.....	339.38	.....	13	.....	2.17	.....	.....	.....	.....	77	
	1921	1,223.37	12,036	55	18	1.85	10.2	.....	393.41	3,570	10	30	3.28	11.0	.....	.....	.....	65	
Ridgetown—	1916	2,173.64	24,975	174	.....	.....	8.7	10+25	2,838.32	32,594	101	.....	.....	8.7	10+25	740.86	3	.....	278
	1917	2,551.69	31,381	205	14	1.12	8.1	2,720.19	26,199	98	22	2.31	10.3	2,245.85	5	96	23.39	308
	1918	2,726.19	33,538	221	13	1.06	8.1	2,434.14	32,567	97	30	2.08	7.4	4,188.49	6	135	31.02	324
	1919	3,364.53	47,770	269	15	1.04	7.1	2,911.80	46,266	102	38	2.38	6.3	4,510.09	8	166	27.17	379
	1920	4,054.63	63,938	317	15	1.07	7.1	3,474.32	62,322	108	48	2.68	5.6	5,249.31	8	169	31.06	433
	1921	4,524.10	79,775	359	19	1.05	5.7	3,401.55	64,552	121	44	2.34	5.3	6,200.89	9	191	32.46	489
	1921	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

Rockwood—	1913	230 27	48	13	1.38	8.8	None	*	.....	9	.....	.....	None	470.82	1	.....	58
1914	848.55	7,824	54	13	1.03	7.7	None	*	.....	7	.....	.....	None	1,542.01	3	.....	64
1915	731.97	9,500	65	14	1.03	7.7	None	251.27	3,300	10	32	2.46	None	907.57	3	.....	78
1916	733.66	11,263	72	14	89	6.5	None	388.05	5,930	11	47	3.08	None	903.57	5	.....	87
1917	795.54	12,740	77	14	90	6.2	None	380.90	6,061	15	39	2.44	None	1,097.05	3	59 18.60	95
1918	860.14	13,242	79	14	91	6.4	None	372.56	5,812	14	33	2.14	None	1,087.21	4	59 18.43	97
1919	1,023.14	17,602	93	16	92	5.8	None	384.46	6,571	17	32	1.90	None	1,177.94	4	59 19.97	114
1920	1,382.39	22,935	94	20	1.23	6.2	None	408.73	6,116	18	28	1.89	None	1,310.28	4	60 21.84	116
1921	1,799.39	27,899	112	21	1.34	6.4	None	584.02	7,607	16	40	3.04	None	2,056.68	4	73 28.17	132
Rodney—	1917	587.46	57	.....	.....	.....	None	665.84	.....	41	.....	.....	None	.....	.....	.....	98
1918	794.65	6,522	63	9	1.10	12.0	None	911.63	7,916	44	15	1.78	None	.....	.....	.....	107
1919	1,050.66	10,423	78	11	1.12	10.1	None	1,124.65	9,712	46	18	2.04	None	1,657.98	2	47 35.28	126
1920	1,516.38	15,389	104	12	1.21	9.9	None	1,373.38	12,641	53	20	2.16	None	1,506.77	2	55 27.40	159
1921	1,849.15	20,809	120	14	1.28	8.9	None	1,548.45	14,445	56	21	2.30	None	1,427.43	2	51 27.99	178
Sarnia—	1917	25,655.32	2,150	15	99	6.6	6	18,724.77	405,824	439	75	3.55	5-4	33,693.36	58	1,014 33.23	2,647
1918	28,772.83	549,370	2,380	20	1.05	5.2	None	19,935.11	494,635	445	93	3.75	None	35,272.45	62	1,110 31.78	2,887
1919	33,920.44	720,871	2,681	22	1.05	4.7	None	22,668.63	534,075	492	91	3.84	None	68,714.03	70	2,065 33.28	3,243
1920	44,174.44	1,028,520	2,918	29	1.26	4.3	None	28,041.43	566,212	477	98	4.90	None	100,632.53	65	2,687 37.45	3,460
1921	51,857.64	1,473,021	3,591	34	1.20	3.5	None	29,269.89	841,088	546	127	4.47	None	90,166.93	79	2,816 22.02	4,216
Scarboro Twp.—	1919	.....	428	12	.....	.....	None	.....	4,054	9	30	.....	None	.....	1	.....	438
1920	.....	58,961	652	18	.....	.....	None	*	3,374	8	35	.....	None	3,083.31	3	59 52.26	663
1921	13,932.01	305,779	947	27	1.23	4.5	None	943.89	18,096	15	100	5.24	None	3,920.18	8	119 32.94	960
Seaforth—	1913	2,124.18	178	.....	.....	8.6	8+25	2,876.47	34,789	105	.....	.....	8+25	7,509.99	10	.....	293
1914	2,467.36	37,453	211	16	1.06	6.8	None	2,581.30	45,492	112	35	1.98	None	7,707.01	10	.....	333
1915	2,593.70	43,162	238	16	96	6.0	None	2,724.84	48,840	111	37	2.03	None	7,685.52	11	.....	360
1916	3,045.65	51,884	288	17	97	5.9	None	2,941.03	56,380	110	43	2.22	None	9,684.11	12	.....	402
1917	3,437.49	59,870	290	17	96	5.8	None	2,902.34	49,593	112	37	2.16	None	15,125.30	13	401 37.72	423
1918	3,675.33	65,761	311	18	99	5.6	None	2,874.71	50,140	108	38	2.17	None	21,124.99	12	573 36.86	431
1919	4,209.20	80,479	326	21	1.08	5.2	None	3,460.97	62,055	119	43	2.42	None	12,054.95	13	469 25.70	455
1920	4,603.78	94,972	400	20	96	4.8	None	3,764.88	79,380	117	56	2.68	None	9,860.95	13	360 27.39	530
1921	5,870.40	138,859	447	26	1.09	4.2	None	3,610.84	89,515	124	60	2.43	None	9,993.15	13	407 24.55	584
Shelburne—	1917	1,625.28	133	18	1.02	5.7	10	1,362.06	23,807	74	27	1.53	10	620.14	4	28 22.15	210
1918	1,749.09	31,280	142	19	1.06	5.5	None	1,416.45	25,820	76	28	1.57	None	2,465.07	5	102 24.16	223
1919	2,046.30	40,546	170	20	1.00	5.0	None	1,645.38	32,215	76	35	1.80	None	2,606.52	3	107 24.36	249
1920	2,616.47	42,896	182	19	1.18	6.1	None	2,084.51	34,331	81	35	2.14	None	4,086.32	9	173 23.62	272
1921	3,754.83	60,112	206	24	1.52	6.2	None	2,862.25	48,759	80	51	2.98	None	4,460.29	7	181 24.64	293

STATEMENT "D"—Continued

Showing Comparative Revenue, Number of Consumers, Total Kw-hr. Consumption, Domestic and Commercial Light, Average Monthly Consumption per Consumer, Average Monthly Bill, and Net Cost per Kw-hr. for the Years 1912, 1913, 1914, 1915, 1916, 1917, 1918, 1919, 1920 and 1921 ; also Average Horsepower Sold and Average Cost per Horsepower per Year to Power Consumers.

Municipality	Year	Domestic Light						Commercial Light						Power							
		Revenue \$	Consumption Kw-hrs.	Number of Consumers	Avg Monthly Consumption kw-hr	Average Monthly Bill \$ c.	Net Cost per Kw-hr. cents	Net Cost prior to Hydro cents	Revenue \$	Consumption Kw-hrs.	Number of Consumers	Avg Monthly Consumption kw-hr	Average Monthly Bill \$ c.	Net Cost per Kw-hr. cents	Net Cost prior to Hydro cents	Revenue \$	Number of Consumers	Average Horsepower	Average Cost per Horsepower \$ c.	Total Number Consumers	
Simcoe—	1915	351.67	5,227	35	.....	.....	6.7	None	1,386.89	26,852	61	.....	.....	.....	5.1	None	766.42	8	.....	.....	153
	1916	1,857.61	13,238	57	.....	.....	6.5	.....	2,292.28	46,254	84	53	2.63	5.0	.....	.....	1,386.33	12	.....	.....	198
	1917	1,346.19	25,468	79	31	1.65	5.3	.....	3,054.71	71,756	103	64	2.74	4.3	.....	.....	1,819.98	16	89	20.45	.....
	1918	1,544.94	29,766	103	27	1.41	5.1	.....	3,134.81	75,588	111	59	2.44	4.1	.....	.....	2,012.87	16	97	20.75	230
	1919	2,237.23	40,838	134	25	1.40	5.5	.....	4,431.49	96,254	126	62	2.93	4.7	.....	.....	2,766.80	80	134	20.65	278
	1920	2,960.86	63,962	176	30	1.40	4.6	.....	5,036.58	131,406	136	80	3.09	3.8	.....	.....	2,856.90	20	155	18.43	332
	1921	3,446.47	95,067	222	36	1.28	3.6	.....	4,967.07	170,629	154	92	2.69	2.9	.....	.....	4,130.39	21	232	17.80	397
Smith's Falls—	1919	12,798.23	303,116	1,017	25	1.05	4.2	8	8,267.12	216,517	226	80	3.05	3.8	8	.....	12,127.54	28	438	27.69	1,271
	1920	19,399.20	.....	1,121	.....	.....	.....	.....	11,655.03	.....	240	.....	.....	.....	.....	.....	22,392.75	31	668	33.50	1,394
	1921	24,285.20	448,540	1,162	32	1.74	5.4	.....	12,264.33	244,781	232	88	4.41	5.2	.....	.....	25,304.04	37	795	31.83	1,431
	Springfield—	738.06	7,332	40	.....	.....	.....	None	526.02	6,161	18	.....	.....	.....	.....	None	650.34	2	25	.....	60
Stamford Twp.—	1919	900.59	9,413	47	17	1.60	9.6	.....	635.08	8,595	21	34	2.52	7.4	.....	.....	545.33	2	28	19.48	70
	1920	961.07	10,813	50	18	1.60	8.9	.....	697.17	8,281	21	33	2.75	8.4	.....	.....	648.72	2	28	23.17	73
	1921	1,110.81	13,368	53	21	1.75	8.3	.....	574.12	.....	22	.....	2.20	.....	.....	.....	528.69	2	27	19.58	77
	1920	6,951.53	.....	673	.....	.....	.....	None	.....	.....	27	.....	.....	.....	.....	None	7,276.54	11	.....	.....	711
1921	10,340.84	.....	770	.....	.....	.....	.....	.....	.....	20	.....	.....	.....	.....	.....	6,937.46	9	.....	.....	799	

Stratford—	1912	6,942.56	.....	640	.....	90	.....	12+25	14,661.16	.....	316	.....	3.86	.....	12+25	8,834.40	76	.....	1,032
1913	11,550.71	.....	1,042	.....	1.02	.....	17,072.61	.....	367	.....	367	.....	4.15	.....	12+25	14,272.59	92	.....	1,501
1914	15,180.91	269,459	1,403	18	1.03	5.5	16,336.30	345,639	396	76	396	76	3.55	4.7		16,519.24	99	.....	1,898
1915	16,967.58	388,200	1,724	21	90	4.4	14,766.75	400,686	439	79	439	79	2.52	3.7		15,415.78	104	.....	2,267
1916	20,108.76	553,441	1,993	26	90	3.6	14,803.08	601,616	463	110	463	110	2.75	2.5		23,506.12	103	.....	2,559
1917	26,614.85	831,496	2,492	31	99	3.2	16,385.81	613,108	388	120	388	120	3.21	2.6		27,846.16	112	1,167	2,992
1918	29,314.17	1,047,437	2,626	34	95	2.7	15,261.26	518,122	399	109	399	109	3.23	2.9		27,845.41	118	1,234	3,143
1919	35,342.84	1,380,776	2,898	40	1.02	2.6	17,330.26	636,710	408	130	408	130	4.53	2.7		26,420.07	124	1,250	3,430
1920	41,679.50	1,956,442	3,193	51	1.09	2.1	19,030.82	779,670	423	154	423	154	3.75	2.4		34,923.07	137	1,618	3,753
1921	50,918.45	2,646,048	3,414	63	1.24	1.9	19,459.85	828,518	455	152	455	152	3.56	2.3		33,036.65	146	1,702	4,015
Stayner—	1913	158.48	.....	120	.....	66	.....	Flat	116.91	.....	30	.....	.....	.....	Flat	301.86	2	.....	152
1914	909.58	9,200	108	7	78	8.4	747.93	11,000	56	20	56	20	1.45	6.7		1,699.08	2	.....	156
1915	995.47	11,845	106	9	78	9.2	933.55	13,725	56	20	56	20	1.39	6.8		1,694.94	2	.....	164
1916	1,012.15	11,995	115	9	76	9.2	997.39	12,955	65	18	65	18	1.37	7.7		1,835.29	3	.....	183
1917	1,109.46	13,883	124	10	78	7.9	957.56	17,169	59	23	59	23	1.29	5.6		1,009.88	5	44	188
1918	1,180.03	13,826	132	10	76	7.0	914.85	15,682	57	22	57	22	1.31	5.8		1,982.63	4	78	193
1919	1,368.49	24,969	134	14	85	6.1	1,334.50	21,766	60	30	60	30	1.85	6.1		3,382.97	5	134	199
1920	1,896.77	24,748	151	14	1.05	7.7	1,683.99	26,620	62	36	62	36	2.26	6.3		3,826.06	5	171	218
1921	2,534.35	40,043	164	20	1.29	6.3	2,301.30	34,034	65	44	65	44	2.95	6.8		3,006.88	9	126	238
Strathroy—	1915	3,380.78	36,200	233	.....	9.3	.....	12+25	4,701.76	50,469	147	.....	.....	9.3	12+25	700.49	5	.....	385
1916	3,318.45	51,197	314	16	1.01	6.5	3,817.38	66,325	152	37	152	37	2.12	5.8		2,927.36	8	.....	474
1917	4,355.25	71,509	375	17	1.05	6.1	3,554.88	62,205	153	34	153	34	1.94	5.7		4,138.79	11	175	539
1918	4,926.25	106,921	381	23	1.08	4.6	3,588.67	73,822	142	41	142	41	2.02	4.8		7,447.74	12	727	535
1919	5,589.48	112,946	417	23	1.12	4.9	4,238.41	89,732	147	51	147	51	2.40	4.7		7,064.29	13	258	577
1920	6,891.04	155,682	479	27	1.20	4.4	5,037.74	115,923	159	61	159	61	2.64	4.3		11,192.48	22	502	660
1921	7,927.50	205,236	537	32	1.23	3.9	5,436.85	122,041	165	62	165	62	2.75	4.4		13,145.24	23	604	725
Sunderland—	1915	794.83	.....	57	.....	.....	.....	12.5	939.85	9,644	36	.....	.....	.....	12.5	.....	.....	.....	93
1916	752.64	7,714	61	11	1.06	.....	840.22	.....	37	45	37	45	1.92	9.0		211.86	1	.....	99
1917	858.64	10,369	58	15	1.29	8.3	745.91	10,108	27	26	27	26	1.94	7.4		731.14	2	34	87
1918	988.01	11,631	65	15	1.33	8.4	735.19	7,867	31	22	31	22	2.11	9.3		825.04	1	30	97
1919	1,123.51	14,103	71	17	1.32	8.0	905.32	10,497	32	24	32	24	2.36	9.8		1,001.01	1	30	104
1920	1,580.01	17,349	79	18	1.66	9.1	1,060.24	10,876	34	27	34	27	2.60	9.7		790.48	1	30	114
1921	1,851.55	16,233	79	17	1.95	11.4	1,398.04	9,850	35	23	35	23	3.33	14.2		814.60	2	30	116

STATEMENT "D"—Continued

Showing Comparative Revenue, Number of Consumers, Total Kw-hr. Consumption, Domestic and Commercial Light, Average Monthly Consumption per Consumer, Average Monthly Bill, and Net Cost per Kw-hr. for the Years 1912, 1913, 1914, 1915, 1916, 1917, 1918, 1919, 1920 and 1921; also Average Horsepower Sold and Average Cost per Horsepower per Year to Power Consumers.

Municipality	Domestic Light							Commercial Light							Power						
	Revenue	Kw-hrs.	Consumption	Number of Consumers	Avg Monthly Consumption	Average Monthly Bill	Net Cost per Kw-hr.	Net Cost prior to Hydro	Revenue	Kw-hrs.	Consumption	Number of Consumers	Avg Monthly Consumption	Average Monthly Bill	Net Cost per Kw-hr.	Net Cost prior to Hydro	Revenue	Number of Consumers	Average Horsepower	Average Cost per Horsepower	Total Number Consumers
St. Catharines—	1914	2,013.48	53,572	833	19	65	3.7	7	\$ 412.75	22,843	92	115	1.9	2.23	1.9	7	\$ 12,742.98	20	c.	\$ c.	945
	1915	9,540.70	273,389	1,612	24	68	2.8		3,810.11	196,056	192	121	1.9	2.25	1.5		25,193.30	34			1,838
	1916	16,419.57	591,765	2,410	31	77	2.3		5,925.49	318,877	247	127	1.5	1.99	1.5		40,688.67	48			2,705
	1917	24,275.56	1,038,894	2,833	40	84	2.0		6,024.34	392,524	270	136	1.6	1.83	1.6		71,138.36	52			3,155
	1918	30,187.05	1,448,273	3,022	44	89	2.0		6,028.41	374,447	279	133	1.5	2.06	1.5		94,632.33	53			3,454
	1919	36,710.19	1,815,947	3,428	44	89	2.0		7,401.09	489,325	299	136	1.5	2.20	1.4		48,616.67	52			3,719
	1920	46,123.30	2,899,265	3,703	65	1.04	1.6		8,930.44	627,664	338	155	1.4	2.39	1.5		60,203.07	69			4,110
1921	55,560.41	3,932,393	4,040	81	1.15	1.4		10,321.67	685,855	360	159	1.5				54,947.24	84			4,484	
St. George—	1915	203.23		39				None	139.16		14						311.30	1			54
	1916	832.23	11,483	56	20	1.46	7.2		474.38	7,031	24	31	6.7	2.08	6.7		583.52	2			82
	1917	1,046.91	15,314	60	22	1.50	6.8		478.96	8,067	23	29	5.9	1.74	5.9		642.64	3			86
	1918	1,138.63	14,034	64	18	1.53	8.1		456.16	8,405	25	29	5.4	1.58	5.4		1,379.58	4			93
	1919	1,399.56	17,841	71	21	1.64	7.8		595.23	10,711	25	36	5.5	1.99	5.5		2,254.91	4			100
	1920	1,390.96	19,694	80	20	1.45	7.1		711.98	13,764	24	48	5.2	2.47	5.2		2,010.11	4			108
	1921	1,312.39	22,771	87	22	1.24	5.8		656.56	13,845	25	46	4.7	2.19	4.7		2,029.88	4			116
St. Jacobs—	1918	570.67	7,000	43				None	521.00	7,559	21						2,160.76	1			65
	1919	615.87	7,992	48	14	1.07	7.7		517.40	6,462	22	24	8.0	1.96	8.0		2,031.33	2			72
	1920	742.62	14,600	60	20	1.03	5.1		494.93	4,588	14	26	10.8	2.78	10.8		2,431.32	2			76
	1921	989.14	16,370	57	24	1.45	6.0		524.38	6,049	23	22	8.7	1.90	8.7		2,303.05	2			82

STATEMENT "D"—Continued

Showing Comparative Revenue, Number of Consumers, Total Kw-hr. Consumption, Domestic and Commercial Light, Average Monthly Consumption per Consumer, Average Monthly Bill, and Net Cost per Kw-hr. for the Years 1912, 1913, 1914, 1915, 1916, 1917, 1918, 1919, 1920 and 1921; also Average Horsepower Sold and Average Cost per Horsepower per Year to Power Consumers.

Municipality	Year	Domestic Light						Commercial Light						Power							
		Revenue	Consumption	Number of Consumers	Avg Monthly Consumption	Average Monthly Bill	Net Cost per Kw-hr.	cents prior to Hydro	Revenue	Kw-hrs.	Consumption	Number of Consumers	Avg Monthly Consumption	Average Monthly Bill	Net Cost per Kw-hr.	cents prior to Hydro	Revenue	Number of Consumers	Average Horsepower	Average Cost per Horsepower	Total Number Consumers
Thamesville—\$ c.																					
1915	1915	378.79	19,061	107	13	1.18	9.1	9	283.36	13,087	53	53	20	1.52	7.8	11	.....	.....	.....	.....	166
1916	1916	1,729.79	21,168	137	13	1.18	8.6	.....	1,021.17	13,087	59	59	20	1.52	7.8	.....	.....	.....	.....	.....	196
1917	1917	1,829.34	23,819	145	13	1.08	7.5	.....	949.80	9,697	70	70	12	1.22	9.8	.....	.....	.....	.....	.....	215
1918	1918	1,781.98	26,913	149	13	1.00	7.5	.....	909.52	11,131	63	63	15	1.20	8.2	.....	.....	.....	.....	.....	213
1919	1919	1,672.09	31,757	149	15	1.04	6.2	.....	1,242.00	16,158	69	69	19	1.50	7.7	.....	.....	.....	.....	.....	218
1920	1920	2,293.54	36,542	168	16	1.14	7.2	.....	1,783.72	16,581	67	67	21	2.22	10.8	.....	.....	.....	.....	.....	237
1921	1921	2,907.81	36,542	183	17	1.32	8.0	.....	2,578.52	24,263	66	66	31	3.26	10.6	.....	.....	.....	.....	.....	253
Thorndale—																					
1914	1914	446.27	2,787	34	.....	.....	7.8	None	.....	2,989	18	18	.....	.....	7.8	None	329.27	1	.....	.....	53
1915	1915	299.37	2,816	32	7	76	10.6	.....	374.09	3,653	20	20	16	1.64	10.2	.....	542.53	1	.....	.....	53
1916	1916	328.67	3,597	33	9	84	9.1	.....	403.01	3,709	21	21	16	1.64	10.9	.....	459.79	1	.....	.....	55
1917	1917	382.95	4,654	37	11	91	8.2	.....	413.03	4,642	22	22	17	1.56	8.9	.....	475.53	1	24	19.81	60
1918	1918	434.89	5,754	41	12	92	7.5	.....	404.27	5,302	23	23	19	1.49	7.6	.....	2,114.60	2	64	33.04	66
1919	1919	539.94	9,211	43	12	1.05	8.7	.....	560.55	6,015	27	27	19	1.73	9.3	.....	2,337.09	2	77	30.35	72
1920	1920	716.05	7,115	46	13	1.30	10.0	.....	715.49	9,269	27	27	29	2.21	7.7	.....	3,455.34	2	86	40.18	75
1921	1921	989.21	12,666	62	17	1.33	7.8	.....	743.97	8,748	17	17	43	3.65	8.5	.....	2,102.43	2	61	34.47	81
Thornton—																					
1919	1919	390.38	.....	31	.....	.....	.....	None	158.36	.....	10	10	.....	.....	.....	None	.....	.....	.....	.....	41
1920	1920	564.08	.....	33	.....	.....	.....	.....	198.24	.....	10	10	.....	.....	.....	.....	.....	.....	.....	.....	43
1921	1921	688.24	6,683	34	16	169	10.3	.....	306.20	3,250	11	11	24	2.32	9.4	.....	.....	.....	.....	.....	55
Tilbury—																					
1915	1915	979.57	21,483	123	.....	.....	.....	10	1,476.53	.....	67	67	.....	.....	.....	10	.....	.....	.....	.....	190
1916	1916	1,507.37	20,600	127	14	1.00	6.5	.....	2,071.77	32,612	79	79	37	2.36	4.5	.....	149.60	2	.....	.....	218
1917	1917	1,555.59	23,964	132	13	1.00	7.6	.....	2,038.56	27,335	80	80	29	2.12	7.5	.....	423.28	5	22	19.24	217
1918	1918	1,652.71	30,305	135	15	1.02	6.9	.....	1,834.59	26,534	75	75	29	2.04	6.8	.....	1,402.53	4	56	25.15	214
1919	1919	1,918.60	35,314	143	18	1.12	6.3	.....	2,279.49	34,939	91	91	32	2.09	6.5	.....	1,889.69	5	77	24.54	239
1920	1920	2,372.09	35,314	144	20	1.37	6.7	.....	2,648.21	44,668	91	91	41	2.43	5.9	.....	1,711.87	6	85	20.14	241
1921	1921	3,279.86	50,279	193	22	1.42	6.5	.....	3,457.17	54,960	89	89	51	3.24	6.3	.....	4,745.94	8	168	28.25	290

Tilsenburgh—	1912	3,233.92	200	10	1.03	9.6	11+25	3,350.91	.....	66,049	128	.....	2.87	7.8	11+25	3,283.75	6	.....	334
	1913	2,796.57	254	14	1.02	7.3		4,677.38	70,265	143	.....	41	2.52	6.5		4,763.15	17	.....	414
	1914	3,367.74	300	14	83	5.7		4,579.37	74,564	160	.....	38	2.19	5.7		6,303.09	16	.....	476
	1915	3,203.51	348	18	1.02	5.5		4,236.42	95,326	161	.....	38	2.14	4.7		5,619.15	15	.....	524
	1916	4,009.67	375	21	1.13	5.4		4,493.41	74,564	188	.....	46	2.25	5.0		5,692.05	17	.....	580
	1917	5,237.69	400	21	1.13	5.4		4,758.14	96,044	165	.....	45	2.25	5.0		7,935.07	20	.....	585
	1918	4,534.89	407	16	93	5.8		5,377.01	104,830	166	.....	53	2.70	5.1		16,717.31	22	.....	595
	1919	4,971.07	441	21	94	4.5		5,573.12	136,175	178	.....	64	2.61	4.1		23,917.76	22	.....	641
	1920	6,417.45	480	28	1.16	4.0		6,077.79	151,422	178	.....	71	2.84	4.0		18,378.45	19	.....	677
	1921	7,160.17	527	28	1.13	4.0		6,679.06	174,255	189	.....	77	2.94	3.8		10,084.24	19	.....	735
Toronto—	1912	201,554.74	11,441	.....	.....	.....	8+25	*	.....	6,156,073	*	.....	4.09	3.8	12+25	225,451.55	518	.....	11,959
	1913	190,376.89	16,519	25	1.25	4.4		233,799.04	7,683,589	4,764	.....	116	4.61	3.9		347,708.88	1,037	.....	22,320
	1914	289,645.45	23,181	27	1.22	4.5		305,534.31	10,243,496	6,276	.....	126	3.60	2.8		483,681.15	1,494	.....	30,951
	1915	331,807.18	29,724	27	1.04	3.9		291,907.92	11,491,577	7,227	.....	131	3.10	2.4		575,239.17	1,504	.....	38,455
	1916	225,181.19	11,250,291	34,347	29	89	3.1	272,243.06	12,763,343	9,341	.....	126	2.96	2.3		612,918.32	1,707	.....	43,460
	1917	414,043.17	15,341,150	41,358	34	91	2.7	297,459.72	13,025,770	9,113	.....	117	2.66	2.2		734,294.61	2,028	.....	52,727
	1918	451,824.59	18,068,947	42,558	36	89	2.5	394,653.18	17,197,460	10,510	.....	136	3.03	2.2		907,886.95	2,034	.....	53,705
	1919	560,912.00	22,799,666	51,242	37	91	2.5	382,167.17	22,452,782	11,307	.....	171	3.87	2.2		1,144,453.76	2,225	.....	63,977
	1920	729,364.33	33,567,358	57,685	51	1.11	2.2	507,285.14	24,954,872	12,401	.....	168	4.70	2.8		1,158,639.12	2,390	.....	71,382
	1921	865,908.45	38,662,078	67,019	48	1.08	2.2	699,144.27	.....	.....	.....	.....	.....	.....		1,236,518.60	2,488	.....	81,908
Toronto Twp.—	1918	13,180.75	280	.....	.....	.....	None	.....	.....	.....	.....	.....	.....	.....	None	.....	.....	.....	280
	1919	14,566.15	58	.....	.....	.....		.....	.....	.....	.....	.....	.....	.....		.....	.....	.....	258
	1920	18,641.08	398	.....	.....	.....		.....	.....	.....	.....	.....	.....	.....		.....	.....	.....	410
	1921	25,042.87	573	.....	.....	.....		.....	.....	.....	.....	.....	.....	.....		.....	.....	.....	585
Tottenham—	1919	1,323.68	79	11	1.40	12.7	Flat	984.93	9,125	46	.....	17	1.78	10.8	Flat	.....	.....	.....	125
	1920	1,528.86	82	19	1.55	7.8		1,011.40	11,000	41	.....	23	2.09	9.8		.....	.....	.....	123
	1921	2,181.09	103	21	1.77	8.5		1,335.34	13,089	47	.....	23	2.37	10.2		217.57	2	6 36 26	152
Vaughan Twp.—	1918	334.57	30	.....	.....	.....	None	124.50	.....	.....	6	.....	.....	.....	None	562.17	3	.....	39
	1919	549.48	42	14	1.09	7.9		150.03	1,490	8	.....	14	1.65	11.8		1,972.79	7	86 22 94	57
	1920	763.80	47	16	1.44	8.9		152.45	1,682	10	.....	16	1.41	9.1		2,059.19	6	79 25 06	63
	1921	1,145.99	53	16	1.80	11.1		234.78	2,121	10	.....	17	1.96	11.1		2,633.87	4	83 31 73	67
Victoria Harbour—	1915	105.79	56	.....	.....	.....	Flat	117.85	.....	.....	34	.....	.....	.....	Flat	.....	.....	.....	90
	1916	642.29	65	.....	.....	.....		1,171.37	.....	.....	31	.....	.....	.....		.....	.....	.....	96
	1917	666.04	69	11	80	7.2		1,130.48	11,721	38	.....	26	2.48	9.6		.....	.....	.....	107
	1918	735.97	71	15	86	5.9		1,069.34	13,830	27	.....	42	3.80	7.7		.....	.....	.....	98
	1919	931.86	78	16	98	6.0		1,299.03	17,292	33	.....	44	3.28	7.5		.....	.....	.....	111
	1920	1,222.63	89	26	1.21	4.9		1,470.72	23,053	39	.....	53	3.40	6.3		.....	.....	.....	128
1921	1,593.60	29,255	97	25	1.37	5.4	1,607.34	32,090	36	.....	74	3.72	5.0		.....	.....	.....	133	

STATEMENT "D"—Continued

Showing Comparative Revenue, Number of Consumers, Total Kw-hr. Consumption, Domestic and Commercial Light, Average Monthly Consumption per Consumer, Average Monthly Bill, and Net Cost per Kw-hr. for the Years 1912, 1913, 1914, 1915, 1916, 1917, 1918, 1919, 1920 and 1921; also Average Horsepower and Average Cost per Horsepower per Year to Power Consumers.

Municipality	Year	Domestic Light						Commercial Light						Power						
		Revenue \$ c.	Consumption Kw-hrs.	Number of Consumers	Av'g Monthly Consumption kw-hr	Average Monthly Bill \$ c.	Net Cost per Kw-hr. cents	Net Cost prior to Hydro cents	Revenue \$ c.	Consumption Kw-hrs.	Number of Consumers	Av'g Monthly Consumption kw-hr	Average Monthly Bill \$ c.	Net Cost per Kw-hr. cents	Net Cost prior to Hydro cents	Revenue \$ c.	Number of Consumers	Average Horsepower	Average Cost per Horsepower \$ c.	Total Number Consumers
Walkerville—																				
	1914	3,037.96		790	21	1.12	5.4	15—5	1,492.84		175	70	3.49	4.4	15—10	6,042.11	75			1,040
	1915	13,036.98	241,771	1,159	21	1.12	5.4		7,836.93	157,198	195	157	3.49	4.4		39,523.81	72			1,421
	1916	18,813.06	391,629	1,513	27	1.34	4.8		12,104.72	309,727	216	126	4.61	3.9		77,003.07	75			1,804
	1917	23,683.25	483,770	1,883	24	1.16	4.9		15,350.67	358,594	225	136	5.81	4.3		80,075.42	71	2,408	33.25	2,179
	1918	27,570.83	532,075	1,970	23	1.16	5.2		16,116.67	372,896	230	137	5.90	4.3		101,125.84	67	2,727	37.08	2,267
	1919	34,159.82	638,269	2,347	23	1.21	5.3		18,045.74	471,895	265	150	5.76	3.8		84,601.16	73	2,676	31.60	2,685
	1920	40,884.48	1,432,929	2,904	45	1.29			22,432.85	618,709	336	171	6.23	3.6		109,892.78	78	3,963	27.80	3,318
	1921	58,792.95	1,824,842	3,171	48	2.54	3.2		21,605.39	569,628	398	120	4.52	3.8		117,511.33	81	4,217	27.87	3,650
Wallaceburg—																				
	1915	4,079.74	56,482	368			7.2	11	4,239.30	63,747	161			6.6	10	87.32	2			531
	1916	5,095.45	68,988	438	15	1.05	7.4		4,589.30	67,718	154	22	1.48	6.8		5,866.32	5			593
	1917	6,077.20	84,311	493	15	1.09	7.2		4,259.72	92,718	157	49	2.29	4.6		13,218.75	16	415	31.85	662
	1918	6,596.51	97,575	527	15	1.04	6.8		3,895.96	66,589	169	33	1.75	5.9		17,475.36	18	504	34.67	714
	1919	8,825.29	134,986	603	19	1.22	6.5		5,365.66	190,152	174	91	2.57	2.8		25,597.73	28	732	34.97	805
	1920	11,021.73	188,628	621	26	1.50	5.8		7,115.48	234,535	179	110	3.35	3.0		32,236.49	26	958	33.35	826
	1921	11,703.39	235,752	715	28	1.36	5.0		7,363.40	164,547	193	71	3.18	4.5		26,193.45	36	910	28.78	944
Watertown—																				
	1912	774.40		41				None	340.00		20				None	614.42	2			63
	1913	1,003.09		70					361.20		34					917.65	2			106
	1914	1,054.13	13,360	71	16	1.25	7.9		535.83	8,321	34	20	1.31	6.5		1,011.38	5			110
	1915	1,202.41	18,017	84	19	1.30	6.7		567.65	8,493	30	23	1.48	6.7		1,207.80	7			121
	1916	1,218.86	18,622	93	18	1.15	6.5		575.10	8,944	32	24	1.55	6.4		1,149.78	6			131
	1917	1,317.48	18,025	101	15	1.13	7.3		529.70	7,887	31	21	1.43	6.7		1,232.89	4	85	14.50	136
	1918	1,450.47	26,308	105	21	1.15	5.5		529.53	9,768	33	25	1.34	5.4		1,163.48	4	67	20.92	142
	1919	1,828.47	24,000	127	16	1.20	7.6		595.30		33					1,401.58	3	80	18.60	163
	1920	2,167.44	30,150	134	19	1.38	7.1		609.00	7,750	31	20	1.59	8.0		1,487.72	3	80	18.60	168
	1921	2,353.26	47,413	154	26	1.24	5.0		664.53	15,236	36	35	1.54	4.4		1,137.87	4	77	14.78	194

Waterford—	1915	685.22	75	14	1.08	7.8	10	546.08	9,827	40	20	1.62	8.1	1,007.74	2	115
	1916	1,112.28	99	15	1.14	7.8		796.50	11,938	42	24	1.21	6.8	4,030.85	1	143
	1917	1,369.35	100	15	1.14	7.8		807.28	13,075	46	25	1.51	6.4	3,687.15	2	143
	1918	1,501.34	122	13	1.03	7.7		831.42	20,737	47	37	1.78	4.8	3,921.69	3	170
	1919	1,874.15	149	21	1.05	5.0		1,003.75	25,277	50	44	1.70	3.9	3,345.94	5	199
	1920	2,303.53	171	21	1.30	6.0		977.72	25,104	49	43	1.93	4.5	2,493.18	7	223
	1921	2,957.14	203	28	1.21	4.3		1,135.31						833.04		259
	Watford—															
	1918	1,544.91	108	16	1.20	7.6	Flat	1,324.56	18,173	70	21	1.57	7.2	1,542.04	4	182
	1916	1,905.65	118	16	1.34	8.3		1,779.86	16,293	60	23	2.47	10.9	2,154.95	5	183
Warbaushene—	1920	2,332.72	136	18	1.53	9.3		2,160.32	20,679	70	27	2.76	10.5	2,305.80	7	213
	1921	2,873.44	154	17	1.55	9.3		2,620.52	29,233	76	32	2.87	9.0	2,808.30	8	238
	Wellesley—															
	1915	516.34	49	13	1.01	7.0	None	220.50	2,979	15	36	2.37	7.7	32.28	1	65
	1916	646.58	58	13	1.01	7.9		496.47	7,534	20	36	2.37	6.6	49.52	1	79
	1917	691.56	64	11	94	8.0		455.62	8,588	17	40	2.23	5.3	36.85	1	82
	1918	702.19	64	13	91	6.9		494.76	10,988	16	57	2.58	4.5	21.49	1	81
	1919	735.40	66	14	93	6.7		266.34	4,951	17	24	1.31	5.4	41.10	2	85
	1920	1,050.26	71	17	1.28	7.5		478.46	7,344	18	28	2.49	6.4	70.49	1	94
	1921	1,324.12	69	17	1.60	9.4		640.36	7,479	16	39	3.34	8.5	112.73	3	88
Wellesley—	1917	642.52	68	9	79	9.0	None	353.33	3,393	28	10	1.05	10.4	2,784.78	3	99
	1918	677.43	65	10	87	8.4		415.73	7,198	25	24	1.38	5.8	4,351.11	3	93
	1919	747.84	69	12	90	7.7		524.60	12,542	27	39	1.62	4.2	4,253.22	3	99
	1920	857.83	76	12	98	7.6		524.94	11,270	30	31	1.45	4.7	4,180.31	3	109
	1921	1,065.38	82	15	1.08	7.3		568.02	7,893	30	22	1.58	7.2	4,003.07	4	116
	Waterloo—															
	1912	4,057.46	239	21	1.27	6.1	12+25	4,524.93	87,718	112	62	3.58	5.8	11,545.93	35	386
	1913	4,263.66	321	19	1.05	5.5		5,098.42	87,718	125	59	2.90	5.0	14,970.14	44	490
	1914	4,723.94	430	19	1.05	5.5		4,825.22	98,924	153	57	2.80	4.9	13,282.14	51	634
	1915	5,401.82	524	19	94	5.1		5,284.87	107,821	162	57	2.80	4.9	15,125.32	53	739
Waterloo—	1916	5,454.60	592	22	81	3.8		4,750.09	130,418	150	69	2.54	3.6	17,905.45	50	792
	1917	6,562.98	694	25	85	3.4		5,097.38	144,543	155	55	2.79	3.5	18,773.17	59	908
	1918	7,157.81	735	26	81	3.1		4,738.43	132,621	155	71	2.55	3.6	20,613.60	50	940
	1919	8,771.46	830	31	88	2.9		5,347.03	176,953	161	92	2.78	3.0	23,399.07	66	1,057
	1920	11,943.47	995	47	1.09	2.3		5,488.04	234,843	169	118	2.77	2.3	27,011.12	68	1,232
	1921	14,931.02	1,091	50	1.14	2.3		7,125.48	298,664	172	145	3.45	2.4	26,882.41	68	1,331
	Waterloo—															
	1912	4,057.46	239	21	1.27	6.1	12+25	4,524.93	87,718	112	62	3.58	5.8	11,545.93	35	386
	1913	4,263.66	321	19	1.05	5.5		5,098.42	87,718	125	59	2.90	5.0	14,970.14	44	490
	1914	4,723.94	430	19	1.05	5.5		4,825.22	98,924	153	57	2.80	4.9	13,282.14	51	634
	1915	5,401.82	524	19	94	5.1		5,284.87	107,821	162	57	2.80	4.9	15,125.32	53	739
	1916	5,454.60	592	22	81	3.8		4,750.09	130,418	150	69	2.54	3.6	17,905.45	50	792
	1917	6,562.98	694	25	85	3.4		5,097.38	144,543	155	55	2.79	3.5	18,773.17	59	908
	1918	7,157.81	735	26	81	3.1		4,738.43	132,621	155	71	2.55	3.6	20,613.60	50	940
	1919	8,771.46	830	31	88	2.9		5,347.03	176,953	161	92	2.78	3.0	23,399.07	66	1,057
	1920	11,943.47	995	47	1.09	2.3		5,488.04	234,843	169	118	2.77	2.3	27,011.12	68	1,232
	1921	14,931.02	1,091	50	1.14	2.3		7,125.48	298,664	172	145	3.45	2.4	26,882.41	68	1,331

STATEMENT "D"—Continued

Showing Comparative Revenue, Number of Consumers, Total Kw-hr. Consumption, Domestic and Commercial Light, Average Monthly Consumption per Consumer, Average Monthly Bill, and Net Cost per Kw-hr. for the Years 1912, 1913, 1914, 1915, 1916, 1917, 1918, 1919, 1920 and 1921; also Average Horsepower and Average Cost per Horsepower per Year to Power Consumers.

Municipality	Year	Domestic Light						Commercial Light						Power				Total Number Consumers		
		Revenue \$ c.	Consumption Kw-hrs.	Number of Consumers	Avg Monthly Consumption kw-hr	Average Monthly Bill \$ c.	Net Cost per Kw-hr. cents	Net Cost prior to Hydro cents	Revenue \$ c.	Consumption Kw-hrs.	Number of Consumers	Avg Monthly Consumption kw-hr	Average Monthly Bill \$ c.	Net Cost per Kw-hr. cents	Revenue \$ c.	Number of Consumers	Average Horsepower		Average Cost per Horsepower \$ c.	
Welland—	1913	1,369.67		408				8+25	558.46		53				8+25	4,307.21	18			479
	1914	4,411.20	117,328	492	22	82	3.7		1,676.38	53	100	2.64	2.6			8,305.71	23			568
	1915	4,643.16	154,534	467	27	81	3.0		1,600.79	57	105	2.42	2.3			38,541.88	23			547
	1916	4,800.06	154,706	536	26	79	3.1		1,580.48	75	141	2.40	1.7			78,184.81	24			635
	1917	5,584.56	243,723	593	36	82	2.3		2,034.85	94	155	2.02	1.3			96,449.82	23	5,985	16.12	710
	1918	7,662.93	316,947	767	38	93	2.4		2,593.74	120	170	2.02	1.1			93,972.63	28			
	1919	11,262.98	642,963	985	54	95	1.7		3,678.46	145	190	2.11	1.1			60,784.43	33	2,282		1,163
Wellington—	1920	14,065.49	895,770	1,092	72	112	1.6		5,126.13	172	183	2.69	1.4			55,825.21	34	4,284		1,298
	1921	18,307.67	1,291,322	1,324	81	115	1.4		5,955.83	211	175	2.35	1.3			43,112.95	44	4,192	10.28	1,579
West Lorne—	1917	578.98		54				Flat	1,362.42	43	33	2.61	8.0	Flat		1,503.26	3	51	29.48	
	1921	2,611.66	34,813	166	17	1.27	7.5		1,199.05	46	27	2.10	7.8			1,736.95	1	56		
West Lorne—	1917	578.98		54				Flat	602.00	40				Flat						94
	1918	759.87	6,884	66	9	96	11.0		649.68	44	15	1.23	8.2			59.38	1			111
	1919	991.90		66					873.46	44						360.44	1	845.05		111
	1920	1,286.61							1,253.45							4,838.27				
	1921	1,630.54	21,954	110	17	1.23	7.5		1,356.84	54	33	2.09	6.3			6,008.65	3	157	38.27	167

Weston—	1912	3,979.81	225	750.00	15	1,674.28	4	344	
	1913	4,117.20	360	1,475.74	35	6,166.97	6	400	
	1914	3,741.84	352	1,599.97	78	4,958.59	10	440	
	1915	4,407.36	441	1,305.90	90	4,798.33	9	540	
	1916	5,477.65	475	1,407.31	88	5,202.84	11	574	
	1917	5,942.00	542	1,467.63	83	16,420.90	12	637	
	1918	6,288.15	667	1,403.92	108	19,578.73	11	882	
	1919	7,453.63	745	1,819.82	104	20,861.85	17	936	
	1920	9,047.65	1,030	2,125.38	120	25,110.01	13	927	
	1921	10,086.61	626,817	2,183.96	53	19,057.66	14	999	
	1921	1,164							1,164
Williamsburg—	1915	403.72	44	139.26	9	285.73	1	54	
	1916	568.66	41	224.29	9	256.38	1	51	
	1917	551.07	42	280.09	10	205.51	1	53	
	1918	547.71	44	313.21	11	334.03	1	56	
	1919	785.76	42	312.45	14	317.42	2	58	
	1920	759.05	41	253.05	7	2214.40	2	50	
	1921	926.67	57	439.04	12	230.38	1	70	
	1921								70
	Winchester—	1914	1,672.09	103	1,300.00	50	227.52	1	153
		1915	1,698.40	120	1,336.85	30	438.22	1	171
		1916	1,812.29	135	1,364.47	46	202.19.1	1	182
1917		2,330.67	162	1,546.53	47	382.03	1	210	
1918		2,595.85	174	1,493.85	47	444.94	2	222	
1919		3,086.06	182	1,690.89	47	569.08	2	231	
1920		3,808.56	192	2,242.15	47	595.07	2	241	
1921		4,987.06	212	2,925.86	49	2523.80	2	263	
1921									263
Windsor—		1914	3,143.41	1,802	1,107.38	257	9.77	10	2,069
		1915	23,161.57	2,519	12,009.99	377	3,734.81	43	2,939
	1916	35,565.79	3,180	16,831.60	439	7,370.82	66	3,685	
	1917	48,913.80	3,882	21,257.15	471	15,362.93	97	4,450	
	1918	60,080.51	4,415	21,751.80	484	27,574.13	101	5,000	
	1919	78,038.66	5,383	27,032.01	584	39,468.90	136	6,103	
	1920	144,249.01	8,700	75,244.64	1,220	156,928.21	273	10,193	
	1921	181,822.04	9,731	99,612.26	1,448	146,724.93	341	11,520	
	1921								11,520

STATEMENT "D"—Concluded

Showing Comparative Revenue, Number of Consumers, Total Kw-hr. Consumption, Domestic and Commercial Light, Average Monthly Consumption per Consumer, Average Monthly Bill, and Net Cost per Kw-hr. for the Years 1912, 1913, 1914, 1915, 1916, 1917, 1918, 1919, 1920 and 1921; also Average Horsepower Sold and Average Cost per Horsepower per Year to Power Consumers.

Municipality		Year		Domestic Light						Commercial Power						Power					
				Revenue	Consumption	Number of Consumers	Avg Monthly Consumption	Average Monthly Bill	Net Cost per Kw-hr.	Net Cost prior to Hydro	Revenue	Consumption	Number of Consumers	Avg Monthly Consumption	Average Monthly Bill	Net Cost per Kw-hr.	Net Cost prior to Hydro	Revenue	Number of Consumers	Average Horsepower	Average Cost per Horsepower	Total Number Consumers
Woodbridge—				c.	Kw-hrs.		kw-hr	\$	c.	cents	cents										
1915		367.49	4,878	42	13	89	7.5	None	443.53	4,911	33	17	1.40	9.0	None	498.44	2			77	
1916		507.10	7,059	58	13	89	7.0		556.82	7,048	33	17	1.40	7.9		2,221.33	7			98	
1917		698.53	10,180	69	14	92	6.9		579.56	13,356	35	33	1.42	4.3		2,384.67	6	74	32.25	110	
1918		809.54	12,013	74	13	91	6.7		590.37	10,263	34	25	1.45	5.8		2,620.39	9	92	28.48	117	
1919		905.44	14,424	85	14	89	6.3		628.07	11,951	40	25	1.31	5.2		4,167.78	5	129	32.31	130	
1920		1,053.78	21,867	98	20	95	5.0		672.50	14,602	40	30	1.40	4.6		5,716.29	5	155	36.88	143	
1921		1,296.84	28,925	115	21	94	4.5		748.34	18,654	36	43	1.73	4.0		3,411.24	5	149	22.89	156	
Woodstock—															8+20						
1912		4,914.92	100,000	464	17	1.08	6.5		13,316.02	298,000	265	77	3.95	5.2		21,087.61	43			772	
1913		6,495.02	169,054	636	21	1.08	5.2		12,942.32	289,982	282	77	3.95	5.2		20,262.52	55			973	
1914		8,807.40	230,297	949	20	88	4.5		11,610.14	371,787	360	90	2.80	3.1		19,833.26	57			1,343	
1915		10,472.14	280,297	1,099	20	88	4.5		11,718.95	371,787	360	90	2.80	3.1		20,742.18	62			1,521	
1916		11,206.71	288,201	1,224	21	80	3.9		12,983.32	503,977	372	114	2.95	2.6		23,721.92	72			1,668	
1917		12,216.48	341,160	1,363	22	79	3.6		12,573.08	554,660	387	122	2.76	2.3		23,191.47	66	2,130		1,816	
1918		13,901.00	423,453	1,418	25	82	3.3		11,087.25	480,092	369	108	2.50	2.3		24,020.63	68	1,427	16.83	1,855	
1919		14,748.02	480,235	1,631	26	75	3.1		12,452.68	597,513	388	128	2.34	2.1		24,473.54	74	1,420	17.23	2,093	
1920		22,542.71	923,186	1,850	44	1.08	2.4		14,832.22	720,766	400	153	3.14	2.1		27,048.49	77	1,682	16.08	2,327	
1921		25,130.13	1,045,124	2,060	42	1.02	2.4		15,988.83	880,382	409	179	3.26	1.8		28,355.47	76	2,557	11.09	2,545	
Woodville—															12.5						
1915		324.34	5,049	35	9	92	9.8	12.5	563.68	6,618	28	21	1.62	7.7		1,149.17	3			66	
1916		496.52	7,741	41	14	1.25	8.9		512.07	8,512	24	21	1.62	7.7		1,185.54	3			68	
1917		689.70	10,180	51	14	1.25	8.9		591.94	13,356	23	31	2.15	7.0		1,072.28	3	50	21.45	77	
1918		722.80	12,013	50	12	1.20	9.8		535.67	6,920	26	20	1.55	7.7		1,152.77	3	50	23.06	79	
1919		847.09	14,060	58	15	1.22	8.4		637.49	9,434	27	29	1.97	6.7		1,218.70	3	50	24.36	88	
1920		1,423.96	20,723	80	17	1.72	10.1		1,122.12	11,569	25	35	3.96	11.5		1,296.75	3	50		115	
1921		2,195.02	28,925	84	21	2.18	10.6		1,330.04	11,580	28	35	3.96	11.5		1,846.69	3	50	36.93		

Wyoming—	1917	658.99	9,309	56	12	98	7.1	None	581.47	8,065	34	20	1.43	7.1	None
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STATEMENT " E "

Street Light Installation in Hydro Municipalities, December 31st, 1921, showing Cost per Year, Cost per Lamp, and Cost per Capita

Municipality	Population	Number of Lamps	Size and Style of Lamps	Cost per Lamp	Total Cost	Cost per Capita
				\$ c.	\$ c.	\$ c.
Acton.....	1,594	{ 96 9 60 1	{ 100 C.P. s 100 " s 100 Watt m 200 " m	{ 11.00 12.00 11.00 11.00	1,841.26	1.15
Ailsa Craig.....	535	51	100 " m	15.50	791.00	1.48
Alexandria.....	2,274	{ 41 83	{ 200 " m 100 " m	{ 35.00 27.00	3,116.56	*
Alliston.....	1,301	{ 98 13	{ 100 " s 100 " m	{ 18.00 18.00	1,998.00	1.53
Ancaster Twp.....		{ 24 44	{ 100 " m 100 " m	{ 12.00 14.00	768.00	**
Apple Hill.....		21	100 " m	21.00	271.75	*
Arthur.....	1,218	69	100 " m	20.00	1,317.98	1.08
Aylmer.....	2,241	{ 136 12	{ 100 " m 300 " m	{ 18.50 34.50	2,930.00	1.30
Ayr.....	796	78	100 " m	14.00	1,170.00	1.47
Baden.....		58	100 " m	10.00	580.00	**
Barrie.....	6,876	472	100 " s	8.00	3,919.31	.57
Beachville.....		42	100 " m	10.00	420.00	**
Beaverton.....	975	78	100 " m	15.50	1,079.50	1.11
Beeton.....	580	62	100 " s	20.00	1,240.00	2.10
Blenheim.....	1,528	{ 139 13	{ 100 " s 400 " s	{ 13.00 34.00	2,197.00	1.43
Bloomfield.....	550	39	100 " s	25.00	975.00	1.77
Bolton.....	656	59	100 " m	16.00	944.04	1.43
Bothwell.....	630	76	100 " m	15.00	1,142.28	1.81
Bradford.....	907	{ 60 7	{ 100 " s 100 " m	{ 22.00 21.00	1,481.00	1.63
Brampton.....	4,406	583	100 " m	7.00	4,126.00	.93
Brantford.....	32,786	{ 147 3,367 10 11 2	{ Mag. Arcs s 100 Watt m 150 " m 200 " m 500 " m	{ 30.00 6.00 7.00 9.00 40.00	23,813.12	.72
Brantford Twp.....		166	100 " m	16.00	2,504.70	**

**Operation for less than a year.

*Population not shown in Government statistics.

sSeries System.

m Multiple System.

STATEMENT "E"—Continued

Street Light Installation in Hydro Municipalities, December 31st, 1921, showing Cost per Year, Cost per Lamp, and Cost per Capita

Municipality	Population	Number of Lamps	Size and Style of Lamps	Cost per Lamp	Total Cost	Cost per Capita
Brechin.....		9	100 watt m	\$ c. 22.00	\$ c. 189.00	\$ c. **
Brigden.....		{ 18 36	{ 60 " m 100 " m	{ 16.00 18.00 }	976.66	**
Brockville.....	9,254	{ 490 80 248	{ 100 " s 100 " m 60 " m	{ }	9,000.00	.97
Burford.....		52	100 " m	16.00	768.00	**
Burgessville.....		20	100 " m	16.00	380.00	**
Caledonia.....	1,308	101	100 " m	9.00	1,010.65	.77
Cannington.....	896	68	100 " m	20.00	1,224.00	1.36
Carleton Place...	3,430	229	60 " m	8.00	1,810.22	.53
Chatham.....	15,525	{ 68 37 83 672 7	{ 500 " s 100 " s 400 " s 100 " s 400 " s	{ 38.00 11.00 30.00 12.00 30.00 }	13,683.76	.88
Chatsworth.....	326	{ 26 2	{ 150 " m 100 " m	{ 16.00 16.00 }	448.00	1.37
Chesley.....	1,721	98	100 " s	16.00	1,527.19	.88
Chesterville.....	919	65	100 " m	19.00	1,235.00	1.34
Chippawa.....	1,099	72	100 " m	16.00	1,152.00	1.04
Clinton.....	1,838	{ 127 12 12 1	{ 80 " s 100 " s 100 " m 500 " m	{ 11.00 11.00 11.00 75.00 }	1,654.79	.90
Coldwater.....	663	44	100 " m	14.00	616.00	.93
Collingwood.....	6,016	403	80 C.P. s	10.00	3,999.16	.61
Comber.....		50	100 watt m	17.50	875.04	**
Cookstown.....		56	100 " s	20.00	1,123.40	**
Creemore.....	603	55	100 " m	16.00	823.69	1.36
Dashwood.....		41	100 " m	15.00	666.25	**
Delaware.....		21	100 " m	17.00	378.00	**
Dorchester.....		27	100 " m	17.00	493.00	**
Drayton.....	602	60	100 " m	18.00	1,080.00	1.79

**Operation for less than a year.

STATEMENT "E"—Continued

Street Light Installation in Hydro Municipalities, December 31st, 1921, showing Cost per Year, Cost per Lamp, and Cost per Capita

Municipality	Population	Number of Lamps	Size and Style of Lamps	Cost per Lamp	Total Cost	Cost per Capita
Dresden.....	1,393	119	80 watt s	\$ c. 15.00	\$ c. 1,693.25	\$ c. 1.21
Drumbo.....		30	100 " m	14.00	440.00	**
Dublin.....		35	100 " m	20.00	700.00	**
Dundalk.....	690	63	100 " m	15.00	882.00	1.27
Dundas.....	5,054	{ 344 1 1 5	{ 100 " m 200 " m 1000 " m 100 " m	{ 10.00 16.00 47.00 12.00	3,307.22	.65
Dunnville.....	3,569	{ 194 27	{ 150 C.P. s 600 " s	{ 14.00 65.00	4,470.27	1.25
Durham.....	1,400	93	100 watt s	16.00	1,410.50	1.00
Dutton.....	870	99	100 " m	13.00	1,244.30	1.43
Elmira.....	2,400	161	100 " m	10.00	1,610.00	.67
Elmvale.....		54	100 " m	14.00	756.00	**
Elmwood.....		23	150 " m	23.50	548.29	**
Flora.....	1,199	93	100 " m	11.00	970.50	.81
Embro.....	463	43	100 " m	19.00	845.76	1.83
Etobicoke Twp.....		285	100 " m	14.00	3,867.66	**
Exeter.....	1,458	{ 153 23	{ 100 " m 200 " m	{ 10.00 20.00	2,182.98	1.49
Fergus.....	1,815	{ 24 111	{ 150 " m 100 " m	{ 12.00 12.00	1,996.57	1.10
Flesherton.....	417	46	100 " m	14.00	644.00	1.54
Forest.....	1,386	{ 49 157	{ 100 " m 60 " m	{ 20.00 13.50	2,621.62	1.88
Galt.....	13,092	{ 895 80 137 236	{ 100 C.P. s 500 watt m 300 " m 100 " m	{ 8.00 35.50 28.50 11.00	16,548.50	1.26
Georgetown.....	2,554	{ 158 11	{ 100 " m 100 " m	{ 9.50 12.00	1,623.11	.63
Glencoe.....	779	123	100 " m	25.00	3,075.00	3.94
Goderich.....	4,287	{ 290 16 8 8	{ 80 " s 3 Lt. stds. m 250 watt m 100 " m	{ 12.50 40.00 25.00 20.00	4,163.04	.97

**Operation for less than a year.

STATEMENT "E"—Continued

Street Light Installation in Hydro Municipalities, December 31st, 1921, showing Cost per Year, Cost per Lamp, and Cost per Capita

Municipality	Population	Number of Lamps	Size and Style of Lamps	Cost per Lamp	Total Cost	Cost per Capita
Grand Valley	595	52	100 watt m	\$ c. 20.00	\$ 970.60	\$ c. 1.63
Granton		32	100 " m	15.00	480.00	**
Gravenhurst	1,432		100 " s	12.00	1,804.23	1.29
Guelph	17,922	<div> 7 4 738 285 92 1 2 </div>	<div> 16 C.P. m 60 watt m 100 " m 100 " nitro m 200 " m 400 " m 1000 " m 4000 " sq. </div>	<div> 4.25 4.00 7.00 7.00 12.50 25.00 46.50 200.00 </div>	9,021.12	.50
Hagersville	1,139	100	100 " m	8.00	833.32	.73
Hamilton	114,766	<div> 7,564 681 150 409 10 26 6 40 </div>	<div> 100 " m 200 " m 250 " m 500 " m 300 " m 40 " m 60 " m 100 " m </div>	<div> 6.00 9.00 9.50 30.00 15.00 Various Special 12.00 </div>	65,438.53	.57
Hanover	2,842	<div> 106 16 10 4 </div>	<div> 100 C.P. s 250 " s 200 watt m 100 " m </div>	<div> 20.00 28.00 28.00 28.00 </div>	2,720.69	.95
Harriston	1,326	61	100 " s	15.00	915.00	.69
Havelock	1,266	<div> 60 16 </div>	<div> 100 " s 250 " s </div>	<div> 28.00 28.00 </div>	2,128.00	*
Hensall	687	65	100 " m	15.00	975.00	1.42
Hespeler	3,059	<div> 119 28 </div>	<div> 150 " s 250 " s </div>	<div> 11.50 17.50 </div>	1,858.50	.61
Highgate	403	45	100 " m	15.00	669.00	1.66
Holstein		14	100 " m	22.00	296.32	**
Huntsville	2,176	<div> 400 150 100 150 100 </div>	<div> " s " s " s " m " m </div>	<div> 30.00 14.00 11.00 15.00 14.00 </div>	1,887.00	.86
Ingersoll	5,422	<div> 228 75 26 </div>	<div> 100 " s 80 " s 1000 C.P. s </div>	<div> 10.00 10.00 30.00 </div>	3,810.00	.70
Kirkfield		21	100 " m	26.50	633.65	**
Kincardine	2,036	<div> 134 13 </div>	<div> 100 " s 200 " m </div>	<div> 24.00 29.00 </div>	2,545.07	*

*Population not shown in Government statistics.

**Operation for less than a year.

STATEMENT "E"—Continued

Street Light Installation in Hydro Municipalities, December 31st, 1921, showing Cost per Year, Cost per Lamp, and Cost per Capita

Municipality	Population	Number of Lamps	Size and Style of Lamps	Cost per Lamp	Total Cost	Cost per Capita
				\$ c.	\$ c.	\$ c.
Kingston.....	22,368	{ 247 95 72	{ Arcs Watt 100 " m	{	20,000.00	.89
Kitchener.....	23,027	{ 9 6 1,733 12 19 44	{ 250 C.P. 1000 " 80 " 150 " 500 " 100 " m	{ s 17.35 s 36.00 s 9.00 s 12.00 m 30.00 m 9.00	16,163.77	.70
Lakefield.....	1,146	90	100 watt m	24.00	1,836.00	1.60
Lambeth.....		30	100 " m	16.00	520.00	**
Lanark.....	625	38	100 " m	28.00	163.32	*
Lancaster.....	639	37	100 " m	28.00	621.37	*
Listowel.....	2,571	{ 222 26	{ 60 " 350 " m	{ m 12.00 m 30.00	3,501.00	1.36
London.....	59,281	{ 286 2,506 84 12 28	{ 400 " 100 " 500 " 200 " 100 " m	{ s 16.00 s 10.00 m 45.00 m 16.00 m Parks & Private	36,087.06	.61
Lucan.....	614	68	100 " m	14.00	951.96	1.55
Lucknow.....	918	52	100 " m	29.00	1,256.67	*
Lynden.....		33	100 " m	15.00	446.75	**
Markdale.....	927	65	100 " s	15.00	910.78	.98
Markham.....	941	91	100 " s	23.00	2,093.00	2.22
Marmora.....	853	{ 45 36	{ 100 " 75 " m	{ m 27.00 m 27.00	2,187.00	*
Martintown.....		16	100 " m	24.00	210.00	*
Maxville.....	721	48	100 " s	28.00	821.33	*
Merritton.....	2,480	275	100 " m	8.00	2,200.00	.89
Midland.....	7,129	{ 19 331	{ 750 " 100 " m	{ s 40.00 m 12.00	4,506.00	.63
Milton.....	1,800	183	100 " m	10.00	1,839.76	1.02
Milverton.....	1,029	{ 85 12	{ 100 " 200 " s	{ s 9.00 s 17.00	1,020.84	.99
Mimico.....	4,187	{ 160 50	{ 100 " 200 " m	{ m 11.00 m 19.00	2,048.10	.49

*Population not shown in Government statistics.

**Operation for less than a year.

STATEMENT "E"—Continued

Street Light Installation in Hydro Municipalities, December 31st, 1921, showing Cost per Year, Cost per Lamp, and Cost per Capita

Municipality	Population	Number of Lamps	Size and Style of Lamps	Cost per Lamp	Total Cost	Cost per Capita
Mitchell.....	1,686	165	100 watt s	\$ c. 12.00	\$ c. 1,980.00	\$ c. 1.17
Moorefield.....		25	100 " m	19.00	475.00	**
Mount Brydges.....		38	100 " m	14.00	532.00	**
Mount Forest....	1,825	183	100 " s	13.00	2,302.75	1.26
Neustadt.....	444	39	100 " s	25.00	975.00	2.19
Newbury.....	283	46	100 " m	20.00	624.97	*
New Hamburg....	1,401	200	100 " m	9.50	1,967.00	1.40
New Toronto....	2,850	.....	100 " m	11.00	1,126.98	.38
Niagara-on-the-Lake.....	1,863	192	100 " in	15.00	2,798.75	1.50
Niagara Falls....	14,805	{ 106 16 732 7	{ 650 " s Arcs 150 watt s 100 " s	{ 47.00 47.00 12.00 12.00	{ 13,483.59	{ .91
Norwich.....	1,237	{ 54 55 15	{ 60 " m 100 " m 400 " m	{ 9.00 10.50 42.00	{ 1,667.26	{ 1.35
Norwood.....	711	{ 84 1	{ 100 " s 100 " s	{ 26.00 30.00	{ 2,102.80	{ *
Oil Springs.....	443	40	100 " m	18.50	496.65	1.12
Omeme.....	557	{ 33 10	{ 100 " s 250 " s	{ 16.00 36.00	{ 847.18	{ 1.52
Orangeville.....	2,427	{ 55 91	{ 250 watt s 100 " s	{ 30.00 24.00	{ 3,810.40	{ 1.57
Ottawa.....	110,708	516 122 713 357 2870	100 C.P. s 400 " s 600 " s 100 watt s 100 watt m	10.00 45.00 45.00 8.00 60c. per ft.	.....	.....
Otterville.....		21	100 watt m	15.00	324.00	**
Owen Sound.....	12,013	{ 394 46 34 186 63	{ 100 " s 200 " s 400 " s 100 " m 200 " m	{ 15.00 19.00 26.00 13.00 16.00	{ 11,270.75	{ .93
Palmerston.....	1,850	116	100 " s	15.00	1,740.00	.94

*Population not shown in Government statistics.

**Operation for less than a year.

STATEMENT "E"—Continued

Street Light Installation in Hydro Municipalities, December 31st, 1921, showing Cost per Year, Cost per Lamp, and Cost per Capita

Municipality	Population	Number of Lamps	Size and Style of Lamps	Cost per Lamp	Total Cost	Cost per Capita
				\$ c.	\$ c.	\$ c.
Paris.....	4,346	{ 377 53	100 watt s 100 " m	{ 10.50 10.50	4,515.00	1.04
Parkhill.....	1,194	83	100 " m	30.00	2,490.00	2.09
Penetang.....	3,896	312	75 " s	14.00	2,566.00	.66
Perth.....	3,630	{ 41 10 3 4	100 " s 250 " s 400 " s 600 " s	{ 22.00 34.00 46.00 64.00	1,369.93	.38
Peterboro.....	21,790	{ 102 1,123	Magnetite arcs 60 watt m	{ 50.50 9.00	15,132.95	.69
Petrolia.....	2,964	{ 142 24	100 " s 400 " s	{ 15.50 55.00	3,493.36	
Picton.....	3,189	{ 75 200	100 " s 75 " s	{ 16.00 14.00	3,971.68	1.24
Plattsville.....		34	100 " m	18.00	555.00	**
Port Arthur.....	15,201	2,783	..... m	.....	16,963.00	1.12
Port Colborne....	2,956	187	100 " m	9.00	1,731.75	.58
Port Credit.....	1,044	110	100 " m	11.00	1,100.00	1.05
Port Dalhousie...	1,565	100	100 " m	14.00	1,442.00	.92
Port McNicoll....	614	38	100 " m	15.00	570.00	.93
Port Stanley.....	797	{ 118 || 36	100 " m 100 " m	{ 13.00 6.50	1,729.05	||
Prescott.....	2,758	{ 161 210	100 " m 100 " m	{ 13.50 12.00	4,693.50	1.70
Preston.....	5,355	{ 1 243 32 34	400 C.P. s 80 " s 150 " s 750 C.P. s	{ 21.00 10.00 11.00 57.00	3,307.32	.61
Princeton.....		20	100 watt m	20.00	400.00	**
Priceville.....		15	100 watt m	31.50	315.00	*
Queenston.....		29	100 " m	21.00	406.00	*
Ridgetown.....	2,256	{ 134 17	100 " s 300 " s	{ 13.00 30.00	2,371.59	1.05
Ripley.....		48	100 " m	27.00	1,080.00	*
Rockwood.....		{ 47 6	100 " m 60 " m	{ 14.00 14.00	708.21	**

*Population not shown in Government statistics.

**Operation for less than a year.

|| Summer Service Only.

STATEMENT "E"—Continued

Street Light Installation in Hydro Municipalities, December 31st, 1921, showing Cost per Year, Cost per Lamp, and Cost per Capita

Municipality	Population	Number of Lamps	Size and Style of Lamps	Cost per Lamp	Total Cost	Cost per Capita
Rodney.....	676	76	100 watt m	\$ c. 15.00	\$ c. 1,187.50	\$ c. 1.75
St. Catharines....	19,862	2,607	100 " m	6.50	15,135.22	.76
St. George.....		33	100 " m	12.00	396.00	**
St. Jacob's.....		40	100 " m	12.00	513.00	**
St. Marys.....	4,004	{ 202 113	{ 100 C.P. s 250 " s	{ 10.00 16.00 }	3,833.40	.95
St. Thomas.....	17,850	{ 114 1,065	{ 500 watt s 75 " s	{ 37.50 9.50 }	14,327.96	.80
Sarnia.....	13,870	{ 78 689	{ 500 watt s 100 " s	{ 45.00 13.00 }	12,717.98	.91
Scarboro' Twp.....		{ 37 41 58	{ 100 " m 100 " s 100 " s	{ 18.00 16.00 18.00 }	1,978.08	**
Seaforth.....	1,981	{ 62 71 21	{ 100 " s 75 " s 75 " s	{ 12.00 10.00 12.00 }	1,688.00	.85
Shelburne.....	1,075	91	100 watt s	15.00	1,327.05	1.23
Simcoe.....	3,946	{ 27 242 2	{ 250 " s 100 " s 100 " m	{ 30.00 9.00 9.00 }	3,266.32	.82
Smith's Falls.....	6,665	{ 200 50	{ 100 " m 200 " m	{ 16.00 21.00 }	4,250.00	.64
Springfield.....	470	40	100 " m	20.00	800.00	1.79
Stamford Twp.....		237	100 " m	8.00	1,744.00	**
Strathroy.....	2,654	{ 297 32	{ 100 " s 250 " s	{ 8.00 15.00 }	3,305.06	1.23
Stratford.....	18,871	{ 773 11 6 173	{ 100 " s 500 " s 500 " s 500 " s	{ 9.50 40.00 30.00 35.00 }	14,455.97	.76
Sebringville.....		15	100 " m	12.00		**
Stayner.....	927	72	100 " s	14.00	1,008.00	1.09
Sunderland.....		27	100 " m	22.00	549.00	**
Tara.....	537	67	100 " m	20.00	1,340.00	2.49
Tavistock.....	1,003	{ 66 33	{ 100 " m 200 " m	{ 12.00 16.00 }	1,374.93	1.37

**Operation for less than a year.

STATEMENT "E"—Continued

Street Light Installation in Hydro Municipalities, December 31st, 1921, showing Cost per Year, Cost per Lamp, and Cost per Capita

Municipality	Population	Number of Lamps	Size and Style of Lamps	Cost per Lamp	Total Cost	Cost per Capita
				\$ c.	\$ c.	\$ c.
Teeswater.....	807	{ 15 35	250 watt s 100 " s	{ 45.00 28.00 }	1,480.58	*
Thamesford.....		34	100 " m	15.00	532.67	**
Thamesville.....		78	100 " m	16.00	1,256.85	**
Thorndale.....		26	100 " m	16.00	416.00	**
Thornton.....		21	100 " m	27.50	577.50	**
Thorold.....	5,514				2,040.00	.37
Tilbury.....	1,749	{ 64 1	100 " m 200 " m	{ 15.00 15.00 }	943.75	.54
Tillsonburg.....	3,021	259	80 " s	10.00	2,557.94	.84
Tottenham.....	452	49	100 " s	21.00	1,029.00	2.27
Toronto.....	512,812	{ 4 6 42,356 139 7 61 586 40 4 452 176	{ 50 " m 60 " m 100 " m 150 " m 200 " m 250 " m 300 " m 500 " m 1000 " m 5 Lt. stds m 1 Lt. stds s	{ 6.00 4.20 7.00-11.00 10.50-13.50 16.00 17.50-20.50 25.00 40.00-47.50 80.00 42.50 55.00 }	343,493.85	.67
Vaughan Twp....		14	100 watt m	17.00	238.00	**
Victoria Harbor..	1,462	60	100 " m	11.00	680.00	.46
Walkerville.....	7,469	{ 751 51 121 20	{ 60 " m 100 " m 100 " m 60 " m	{ 5.60 7.50 12.00 12.00 }	6,028.29	††
Wallaceburg.....	4,119	{ 174 28	{ 100 " s 400 " s	{ 11.00 25.00 }	2,953.30	.72
Wardsville.....	215	30	75 " m	29.00		*
Waterford.....	1,083	120	100 " m	11.00	1,333.02	1.23
Waterdown.....	816	64	100 " m	10.00	620.00	.76
Waterloo.....	5,744	{ 166 241 38 14 44 8	{ 100 " s 80 " s 100 " m 200 " m 5 Lt. stds m 3 Lt. stds m	{ 10.00 10.00 10.00 15.00 40.00 25.00 }	5,840.59	1.01

*Population not shown in Government statistics.

**Operation for less than a year.

††Includes Ford City and Tecumseh. Part of cost paid direct in the form of debenture Charges.

STATEMENT "E"—Continued

Street Light Installation in Hydro Municipalities, December 31st, 1921, showing Cost per Year, Cost per Lamp, and Cost per Capita

Municipality	Population	Number of Lamps	Size and Style of Lamps	Cost per Lamp	Total Cost	Cost per Capita
				\$ c.	\$ c.	\$ c.
Watford.....	1,033	{ 78 1	100 watt m 60 " m	{ 18.50 13.50 }	1,638.45	1.58
Waubashene.....		30	100 " m	12.00	360.00	**
Welland.....	9,356	{ 104 440	200 " m 100 " m	{ 16.00 9.00 }	6,440.85	.69
Wellesley.....		50	100 " m	14.00	741.96	**
Wellington.....	850				882.00	1.04
West Lorne.....	770	85	100 " m	14.00	1,378.73	1.79
Weston.....	3,104	{ 31 234 32 5	600 C.P. s 100 " s 150 " s 100 " s	{ 61.00 9.00 10.00 8.00 }	3,068.22	.99
Winchester.....	1,028	117	100 watt m	16.50	1,930.50	1.88
Windsor.....	37,120	{ 303 22 2,339	600 C.P. s 400 " s 100 " s	{ 45.00 24.00 11.00 }	39,245.57	1.05
Wingham.....	2,337	{ 78 25 20	100 C.P. s 250 " s 250 " m	{ 31.00 44.00 44.00 }	2,953.72	*
Williamsburg.....		17	100 watt m	17.00	221.00	**
Woodbridge.....	661	77	100 " m	12.00	916.00	1.46
Woodstock.....	10,333	{ 50 437 172 105	250 " s 80 " s 60 " m 100 " m	{ 20.00 8.00 8.00 8.00 }	6,772.97	.65
Woodville.....	448	36	100 " m	20.00	684.00	1.52
Wyoming.....	475	48	100 " m	20.00	960.00	2.02
Zurich.....		60	100 " m	15.00	975.00	**

*Population not shown in Government statistics.

**Operation for less than a year.

sSeries System.

mMultiple System.

STATEMENT
Cost of Power to Municipalities

Municipality	Note	Interim Rates at which Power is billed to the Municipality and adjusted to Cost at the end of the year									
		1912	1913	1914	1915	1916	1917	1918	1919	1920	1921
		\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Acton.....	D	.....	36.00	36.00	36.00	36.00	36.00	36.00	35.00	32.00	32.00
Ailsa Craig.....	D	.....	.....	.....	.....	49.67	49.67	49.67	49.00	49.00	49.00
Alexandria.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	65.00	80.00
Alliston.....	D	.....	.....	.....	.....	.....	.....	40.00	40.00	50.00	60.00
Ancaster.....	D	.....	.....	.....	.....	.....	.....	.....	25.81	25.81	25.81
Apple Hill.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	60.00	85.00
Arthur.....	D	.....	.....	.....	.....	.....	45.00	45.00	45.00	65.00	85.00
Aylmer.....	D	.....	.....	.....	.....	.....	.....	39.00	38.00	38.00	45.00
Ayr.....	D	.....	.....	.....	37.40	37.40	37.40	37.40	45.00	50.00	50.00
Baden.....	D	36.95	37.00	32.00	32.00	32.00	32.00	32.00	32.00	32.00	32.00
Barrie.....	D	.....	33.70	33.70	33.70	33.70	31.00	31.00	29.00	29.00	29.00
Barton Township.....	D	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Beachville.....	D	33.89	31.00	31.00	31.00	31.00	28.00	28.00	27.00	27.00	30.00
Beaverton.....	D	.....	.....	.....	6.17	59.00	41.21	41.21	45.00	55.00	60.00
Beeton.....	D	.....	.....	.....	.....	.....	.....	45.00	45.00	85.00	85.00
Blenheim.....	D	.....	.....	.....	.....	43.70	43.70	43.70	50.00	50.00	53.00
Bloomfield.....	D	.....	.....	.....	.....	.....	.....	.....	66.16	66.16	66.16
Bolton.....	D	.....	.....	.....	43.00	43.00	43.00	43.00	43.00	60.00	60.00
Bothwell.....	D	.....	.....	.....	.....	59.26	59.26	59.26	60.00	60.00	60.00
Bradford.....	.....	.....	.....	.....	.....	.....	.....	47.00	47.00	75.00	75.00
Brampton.....	B	29.00	25.00	25.00	25.00	24.00	22.00	22.00	22.00	20.00	20.00
Brantford.....	A	.....	.....	19.50	19.50	19.00	19.00	19.00	18.00	18.00	20.00
Brechin.....	D	.....	.....	.....	56.79	67.00	50.00	50.00	55.00	85.00	90.00
Bridgeport, ext.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Brantford Township.....	D	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Breslau.....	D	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Brooklyn.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Brockville.....	.....	.....	.....	.....	.....	.....	.....	30.00	40.00	45.19	55.00
Brigden.....	D	.....	.....	.....	.....	.....	57.56	57.50	57.50	57.50	60.00
Bullock's Corners and Greensville, ext.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Burford.....	D	.....	.....	.....	37.50	37.50	37.50	37.50	60.00	70.00	70.00
Burgessville.....	D	.....	.....	.....	.....	.....	48.38	48.38	48.00	48.00	48.00
Carleton Place.....	D	.....	.....	.....	.....	.....	.....	.....	33.00	33.00	44.00
Caledonia.....	D	29.10	29.10	24.00	24.00	24.00	24.00	24.00	24.00	24.00	24.00
Cannington.....	D	.....	.....	.....	65.77	63.00	45.79	45.79	50.00	65.00	65.00
Chatham.....	A	.....	.....	.....	30.78	30.78	30.78	30.78	29.00	29.00	28.00
Chatsworth.....	D	.....	.....	.....	.....	30.18	30.18	30.18	30.00	45.00	60.00
Chesley.....	D	.....	.....	.....	.....	40.00	40.00	40.00	40.00	45.00	55.00
Chippawa.....	D	.....	.....	.....	.....	.....	.....	.....	35.00	35.00	32.00
Chesterville.....	D	.....	36.12	43.29	46.00	46.00	46.00	46.00	46.00	76.73	85.00
Clinton.....	A	.....	39.00	39.00	42.00	42.00	42.00	42.00	43.00	43.00	46.00
Coldwater.....	D	.....	28.00	28.00	28.00	28.00	28.00	28.00	40.00	50.00	60.00
Collingwood.....	D	.....	33.79	33.79	33.79	33.97	30.00	30.00	28.00	28.00	36.00
Comber.....	D	.....	.....	.....	.....	56.22	56.22	56.22	60.00	60.00	60.00
Cookstown.....	D	.....	.....	.....	.....	.....	.....	35.00	35.00	60.00	60.00
Creemore.....	D	.....	54.13	54.13	54.13	54.13	54.13	54.13	60.00	65.00	65.00
Dashwood.....	D	.....	.....	.....	.....	.....	.....	56.75	56.00	56.00	56.00
Delaware.....	D	.....	.....	.....	46.56	46.56	46.56	46.56	50.00	85.00	85.00
Dorchester.....	D	.....	.....	.....	45.00	45.00	45.00	45.00	50.00	50.00	50.00
Drayton.....	D	.....	.....	.....	.....	.....	.....	60.45	60.00	65.00	70.00
Dresden.....	D	.....	.....	.....	43.00	43.00	43.00	43.00	42.00	38.00	38.00
Drumbo.....	D	.....	.....	.....	40.73	40.73	40.73	40.73	45.00	60.00	55.00
Dublin.....	D	.....	.....	.....	.....	.....	47.91	47.91	48.00	60.00	60.00

"F"

and Power Rates to Consumers

Power Rates to Consumers

1920					1921				
Service Charge per H.P. per Month	1st 50 Hr. per Month per Kw-hr.	2nd 50 Hr. per Month per Kw-hr.	All Additional per Kw-hr.	Prompt Payment Discount	Service Charge per H.P. per Month	1st 50 Hr. per Month per Kw-hr.	2nd 50 Hr. per Month per Kw-hr.	All Additional per Kw-hr.	Prompt Payment Discount
\$ c.	c.	c.	c.	%	\$ c.	c.	c.	c.	%
1.00	3.1	2.1	0.15	10	1.00	3.1	2.1	0.15	10
1.00	5.2	3.5	0.15	10	1.00	5.2	3.5	0.15	10
1.00	4.9	3.3	0.15	10	1.00	6.4	4.3	0.15	10
1.00	3.0	2.0	0.15	10	1.00	4.9	3.3	0.15	10
					1.00	3.0	2.0	0.15	10
1.00	6.8	4.6	0.15	10	1.00	6.5	4.4	0.15	10
1.00	4.9	3.3	0.15	10	1.00	6.8	4.6	0.15	10
1.00	4.9	3.3	0.15	10	1.00	4.9	3.3	0.15	10
1.00	3.1	2.0	0.15	10	1.00	4.9	3.3	0.15	10
					1.00	2.8	1.8	0.15	10
1.00	2.8	1.8	0.15	10	1.00	2.2	1.5	0.15	10
1.00	Hamilton rates plus 10%				1.00	Hamilton rates plus 10%			
1.00	2.0	1.4	0.15	10	1.00	2.11	1.39	0.167	10 & 10
1.00	4.9	3.3	0.15	10	1.00	4.9	3.3	0.15	10
1.00	6.8	4.6	0.15	10	1.00	6.8	4.6	0.15	10
1.00	4.9	3.3	0.15	10	1.00	4.9	3.3	0.15	10
1.00	6.5	4.3	0.15	10	1.00	6.5	4.3	0.15	10
1.00	5.4	3.6	0.15	10	1.00	5.4	3.6	0.15	10
1.00	7.1	4.7	0.15	10	1.00	7.1	4.7	0.15	10
1.00	4.9	3.3	0.15	10	1.00	4.9	3.3	0.15	10
1.00	1.67	1.11	0.133	10 & 10	1.00	1.67	1.11	0.133	10 & 10
1.00	2.133	1.33	0.173	25 & 10	1.00	2.133	1.33	0.173	25 & 10
1.00	6.8	4.6	0.15	10	1.00	6.8	4.6	0.15	10
1.00	2.8	1.8	0.15	10	1.00	2.8	1.8	0.15	10
1.00	2.3	1.6	0.15	10	1.00	2.3	1.6	0.15	10
1.00	3.9	2.6	0.15	10	Rural Rate				
1.00	4.5	3.0	0.15	10	1.00	4.5	3.0	0.15	10
1.00	4.5	3.0	0.15	10	1.00	5.2	3.5	0.15	10
1.00	6.8	4.5	0.15	10	1.00	6.8	4.5	0.15	10
1.00	2.8	1.8	0.15	10	1.00	2.8	1.8	0.15	10
1.00	6.8	4.5	0.15	10	1.00	6.8	4.5	0.15	10
1.00	4.9	3.3	0.15	10	1.00	4.9	3.3	0.15	10
1.00	3.6	2.4	0.15	10	1.00	3.6	2.4	0.15	10
1.00	2.0	1.4	0.15	10	1.00	2.33	1.56	0.167	10 & 10
1.00	6.8	4.6	0.15	10	1.00	6.8	4.6	0.15	10
1.00	3.2	2.1	0.15	10	1.00	2.5	1.7	0.15	10
1.00	4.9	3.3	0.15	10	1.00	4.9	3.3	0.15	10
1.00	5.1	3.4	0.15	10	1.00	5.1	3.4	0.15	10
1.00	3.6	2.4	0.15	10	1.00	2.8	1.8	0.15	10
1.00	5.2	3.5	0.15	10	1.00	5.2	3.5	0.15	10
1.00	4.7	3.1	0.15	10	1.00	4.7	3.1	0.15	10
1.00	4.9	3.3	0.15	10	1.00	4.9	3.3	0.15	10
1.00	1.83	1.233	0.15	10 & 10	1.00	2.5	1.7	0.2	10
1.00	6.8	4.6	0.15	10	1.00	6.8	4.5	0.15	10
1.00	6.8	4.6	0.15	10	1.00	6.8	4.6	0.15	10
1.00	6.4	4.3	0.15	10	1.00	6.4	4.3	0.15	10
1.00	6.7	4.5	0.15	10	1.00	6.7	4.5	0.15	10
1.00	5.4	3.6	0.15	10	1.00	5.4	3.6	0.15	10
1.00	5.4	3.6	0.15	10	1.00	5.4	3.6	0.15	10
1.00	7.1	4.7	0.15	10	1.00	7.1	4.7	0.15	10
1.00	4.2	2.8	0.15	10	1.00	3.9	2.6	0.15	10
1.00	4.8	3.2	0.15	10	1.00	4.8	3.2	0.15	10
1.00	6.4	4.3	0.15	10	1.00	6.4	4.3	0.15	10

"F"—Continued
and Power Rates to Consumers

Power Rates to Consumers

1920					1921				
Service Charge per H.P. per Month	1st 50 Hr. per Month per Kw-hr.	2nd 50 Hr. per Month per Kw-hr.	All Additional per Kw-hr.	Prompt Payment Discount	Service Charge per H.P. per Month	1st 50 Hr. per Month per Kw-hr.	2nd 50 Hr. per Month per Kw-hr.	All Additional per Kw-hr.	Prompt Payment Discount
\$ c.	c.	c.	c.	%	\$ c.	c.	c.	c.	%
1.00	4.2	2.8	0.15	10	1.00	4.2	2.8	0.15	10
1.00	1.67	1.11	0.15	10 & 10	1.00	1.67	1.11	0.15	10 & 10
1.00	3.5	2.3	0.15	10	1.00	3.5	2.3	0.15	10
1.00	4.5	3.0	0.15	10	1.00	4.5	3.0	0.15	10
1.00	3.5	2.3	0.15	10	1.00	3.5	2.3	0.15	10
1.00	3.6	2.4	0.15	10	1.00	3.6	2.4	0.15	10
1.00	3.6	2.4	0.15	10	1.00	3.6	2.4	0.15	10
1.00	5.4	3.6	0.15	10	1.00	5.4	3.6	0.15	10
1.00	3.2	2.1	0.15	10	1.00	3.2	2.1	0.15	10
1.00	7.1	4.7	0.15	10	1.00	7.1	4.7	0.15	10
1.00	3.2	2.1	0.15	10	1.00	3.2	2.1	0.15	10
1.00	3.9	2.6	0.15	10	1.00	3.9	2.6	0.15	10
1.00	3.5	2.3	0.15	10	1.00	3.5	2.3	0.15	10
1.00	4.2	2.8	0.15	10	1.00	4.2	2.8	0.15	10
1.00	3.5	2.3	0.15	10	1.00	3.5	2.3	0.15	10
1.00	7.4	4.9	0.15	10	1.00	7.1	4.7	0.15	10
1.00	2.0	1.33	0.167	25 & 10	1.00	2.0	1.33	0.167	25 & 10
1.00	2.8	1.8	0.15	10	1.00	2.0	1.4	0.15	10
1.00	3.6	2.4	0.15	10	1.00	3.6	2.4	0.15	10
1.00	4.5	3.0	0.15	10	1.00	4.5	3.0	0.15	10
1.00	6.8	4.6	0.15	10	1.00	6.8	4.6	0.15	10
1.00	8.6	5.7	0.15	10	1.00	8.6	5.7	0.15	10
1.00	3.5	2.25	0.15	10	1.00	3.5	2.25	0.15	10
1.00	8.7	5.8	0.15	10	1.00	8.7	5.8	0.15	10
1.00	5.6	3.8	0.15	10	1.00	5.6	3.8	0.15	10
1.00	1.467	1.0	0.133	25 & 10	1.00	1.467	1.0	0.133	25 & 10
1.00	2.8	1.8	0.15	10	1.00	2.5	1.7	0.15	10
1.00	1.43	1.0	0.143	30 & 10	1.00	1.43	1.0	0.143	30 & 10
1.00	3.3	2.2	0.15	10	1.00	3.3	2.2	0.15	10
1.00	4.8	3.2	0.15	10	1.00	4.8	3.2	0.15	10
1.00	5.4	3.6	0.15	10	1.00	5.4	3.6	0.15	10
1.00	2.11	1.39	0.167	10 & 10	1.00	2.11	1.39	0.167	10 & 10
1.00	5.8	3.9	0.15	10	1.00	5.8	3.9	0.15	10
1.00	9.3	6.2	0.15	10	1.00	9.3	6.2	0.15	10
1.00	5.6	3.8	0.15	10	1.00	5.6	3.8	0.15	10
1.00	3.5	2.25	0.15	10	1.00	3.5	2.25	0.15	10
1.00	1.67	1.11	0.133	10 & 10	1.00	1.67	1.11	0.133	10 & 10
.....	.....	.....	.....	.....	1.00	8.6	5.7	0.15	10
.....	.....	.....	.....	.....	1.00	5.4	3.6	0.15	10
1.00	2.5	1.7	0.15	10	1.00	2.0	1.4	0.15	10
1.00	5.4	3.6	0.15	10	1.00	5.4	3.6	0.15	10
1.00	1.867	1.267	0.16	25 & 10	1.00	1.867	1.267	0.16	25 & 10
1.00	4.2	2.8	0.15	10	1.00	4.2	2.8	0.15	10
1.00	5.4	3.6	0.15	10	1.00	5.4	3.6	0.15	10
.....	.....	.....	.....	.....	1.00	8.6	5.7	0.15	10
.....	.....	.....	.....	.....	1.00	8.6	5.7	0.15	10
1.00	3.8	2.5	0.15	10	1.00	3.8	2.5	0.15	10
1.00	1.867	1.267	0.16	25 & 10	1.00	1.867	1.267	0.16	25 & 10
1.00	4.2	2.8	0.15	10	1.00	4.2	2.8	0.15	10
.....	.....	.....	.....	.....	1.00	7.1	4.7	0.15	10
1.00	4.5	3.0	0.15	10	1.00	4.5	3.0	0.15	10
1.00	3.5	2.3	0.15	10	1.00	3.5	2.3	0.15	10
1.00	10.0	6.7	0.15	10	1.00	9.3	6.2	0.15	10
.....	.....	.....	.....	.....	1.00	6.4	4.3	0.15	10

STATEMENT Cost of Power to Municipalities

Municipality	Note	Interim rates at which power is billed to the Municipality and adjusted to cost at the end of the year									
		1912	1913	1914	1915	1916	1917	1918	1919	1920	1921
		\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Maxville.....										86.00	86.00
Midland.....	D	21.00	20.30	19.45	19.37	19.37	19.00	19.00	20.00	28.00	32.00
Milton.....	B		28.00	28.00	28.00	28.00	28.00	28.00	28.00	28.00	28.00
Milverton.....	D					35.63	35.63	35.63	35.00	35.00	35.00
Mimico.....	D	30.74	30.00	28.00	28.00	28.00	27.00	27.00	25.00	21.00	21.00
Mitchell.....	A	38.00	37.00	37.00	37.00	37.00	36.00	36.00	36.00	36.00	36.00
Moorefield.....	D							63.93	63.00	70.00	70.00
Mount Brydges.....	D				46.56	46.56	46.56	46.56	50.00	70.00	70.00
Mount Forest.....	D					34.51	34.51	34.51	40.00	55.00	65.00
New Hamburg.....	D	32.00	32.00	32.00	32.00	32.00	32.00	32.00	32.00	32.00	32.00
New Toronto.....	D			28.00	28.00	28.00	27.00	27.00	25.00	20.00	22.00
Newbury.....	D										67.10
Neustadt.....	D								42.50	45.00	55.00
Niagara-on-the-Lake.....	B									28.00	28.00
Niagara Falls.....	B & D					11.50	11.50	11.50	11.50	11.50	12.50
Norwich.....	D	30.00	32.00	32.00	32.00	38.00	38.00	38.00	35.00	35.00	35.00
Oil Springs.....	D							38.54	38.00	43.00	43.00
Omeme.....	D							39.39	39.39	39.39	39.39
Orangeville.....	D					35.00	35.00	35.00	35.00	55.00	65.00
Ottawa.....	A	15.00	15.00	15.00	14.00	14.00	14.00	14.00	14.00	14.00	13.50
Otterville.....	D					45.00	45.00	45.00	50.00	50.00	50.00
Owen Sound.....	D					31.00	31.00	31.00	28.00	28.00	30.00
Palmerston.....	D					40.82	40.82	40.82	45.00	50.00	45.00
Paris.....	A			21.00	21.00	21.00	21.00	21.00	20.00	19.00	21.00
Parkhill.....	D									75.23	75.00
Perth.....	D								32.00	32.00	45.00
Penetang.....	D	28.80	26.50	26.50	26.50	26.50	22.00	22.00	22.00	32.00	30.00
Peterboro.....	C D			18.00	18.00	17.70	17.70	17.50	17.50	17.50	17.50
Petersburg.....				Serve d fro	m Ba	den Sub	St ation				
Petrolia.....	D					36.26	36.26	36.26	36.00	36.00	36.00
Plattsville.....	D				49.27	49.27	49.27	49.27	60.00	65.00	65.00
Pictou.....	D								69.14	69.14	69.14
Port Colborne.....	A									21.00	21.00
Port Arthur.....	A	20.30	19.50	22.25	22.71	20.75	20.75	19.75	19.75		
Port Credit.....	D	36.79	31.00	28.00	28.00	27.00	27.00	27.00	25.00	23.00	23.00
Port Dalhousie.....	D		22.30	21.42	22.49	24.31	25.81	24.85	21.56	17.00	17.00
Port McNicoll.....	D				35.00	35.00	25.00	25.00	35.00	85.00	85.00
Port Robinson, ext.....				Serve d by	Welland						
Port Stanley.....	D	59.75	55.50	43.85	50.90	49.53	46.78	45.54	53.03	53.00	50.00
Prescott.....	D			39.59	28.67	25.00	25.00	25.00		44.93	55.00
Preston.....	C	25.00	21.50	21.00	21.00	20.00	19.00	19.00	19.00	19.00	22.00
Priceville.....											
Princeton.....	D				65.95	65.95	65.95	65.95	70.00	85.00	90.00
Ridgetown.....	D					47.17	47.17	47.17	47.00	47.00	45.00
Ripley.....											
Rockwood.....	D		38.00	38.00	38.00	38.00	38.00	38.00	38.00	55.00	55.00
Rodney.....	D						63.00	63.00	63.00	63.00	55.00
Sandwich.....				Serve d by	Wind sor						
Sarnia.....	A					38.00	38.00	38.00	38.00	36.00	35.00
Seaforth.....	A	41.00	40.00	40.00	40.00	40.00	38.00	38.00	38.00	36.00	36.00
Scarboro Township.....	D								25.00	25.00	28.00
Sebringville, ext.....				Serve d by	Stratford						
Shelburne.....	D					30.00	30.00	30.00	30.00	38.00	50.00
Simcoe.....	A				35.00	35.00	35.00	35.00	32.00	28.00	28.00

"F"—Continued
and Power Rates to Consumers

Power Rates to Consumers									
1920					1921				
Service Charge per H.P. per Month	1st 50 Hr. per Month per Kw-hr.	2nd 50 Hr. per Month per Kw-hr.	All Additional per Kw-hr.	Prompt Payment Discount	Service Charge per H.P. per Month	1st 50 Hr. per Month per Kw-hr.	2nd 50 Hr. per Month per Kw-hr.	All Additional per Kw-hr.	Prompt Payment Discount
\$ c.	c.	c.	c.	%	\$ c.	c.	c.	c.	%
1.00	2.0	1.4	0.15	10	1.00	8.0	5.3	0.15	10
1.00	2.2	1.5	0.15	10	1.00	2.0	1.4	0.15	10
1.00	3.3	2.2	0.15	10	1.00	2.2	1.5	0.15	10
1.00	2.11	1.39	0.67	10 & 10	1.00	3.3	2.2	0.15	10
1.00					1.00	2.11	1.39	0.167	10 & 10
1.00	3.8	2.5	0.15	10	1.00	3.6	2.4	0.15	10
1.00	7.1	4.7	0.15	10	1.00	7.1	4.7	0.15	10
1.00	5.4	3.6	0.15	10	1.00	5.4	3.6	0.15	10
1.00	3.8	2.5	0.3	10	1.00	4.2	2.8	0.15	10
1.00	2.9	1.9	0.15	10	1.00	2.9	1.9	0.15	10
1.00	2.133	1.33	0.173	25 & 10	1.00	2.133	1.33	0.173	25 & 10
1.00	8.1	5.4	0.15	10	1.00	8.1	5.4	0.15	10
1.00	4.9	3.3	0.15	10	1.00	4.9	3.3	0.15	10
1.00	2.8	1.8	0.15	10	1.00	2.5	1.7	0.15	10
1.00	2.2	1.5	0.18	50 & 10	1.00	1.33	0.867	0.1	25 & 10
1.00	3.	2.	0.15	10	1.00	3.	2.	0.15	10
1.00	4.8	3.2	0.15	10	1.00	4.8	3.2	0.15	10
1.00	4.5	3.	0.15	10	1.00	4.5	3.	0.15	10
1.00	3.6	2.4	0.15	10	1.00	3.6	2.4	0.15	10
1.00	1.8	1.2	0.15	15 & 10	1.00	1.8	1.2	0.15	15 & 10
1.00	4.9	3.3	0.15	10	1.00	4.7	3.1	0.15	10
1.00	2.	1.4	0.15	10	1.00	2.	1.4	0.15	10
1.00	4.7	3.1	0.15	10	1.00	4.7	3.1	0.15	10
1.00	1.67	1.11	0.133	10 & 10	1.00	1.67	1.11	0.133	10 & 10
1.00	9.0	6.0	0.15	10	1.00	7.8	5.2	0.15	10
1.00	3.6	2.4	0.15	10	1.00	3.6	2.4	0.15	10
1.00	2.0	1.4	0.15	10	1.00	2.0	1.4	0.15	10
1.00	1.3	0.8	0.1	10	1.00	1.3	0.8	0.1	10
1.00	5.1	3.4	0.15	10	Rural Rates				
1.00	3.6	2.4	0.15	10	1.00	3.1	2.0	0.15	10
1.00	5.4	3.6	0.15	10	1.00	5.4	3.6	0.15	10
1.00	6.8	4.5	0.15	10	1.00	6.4	4.3	0.15	10
1.00	2.5	1.7	0.15	10	1.00	2.5	1.7	0.15	10
1.00	1.75	1.	0.1	10	1.00	1.75	1.	0.1	10
1.00	2.0	1.4	0.15	10	1.00	2.0	1.4	0.15	10
1.00	2.33	1.56	0.167	10 & 10	1.00	2.33	1.56	0.167	10 & 10
1.00	3.6	2.4	0.15	10	1.00	6.8	4.6	0.15	10
1.00	1.8	1.2	0.15	10	1.00	1.8	1.2	0.15	10
1.00	5.	3.	0.15	10	1.00	5.	3.	0.15	10
1.00	2.8	1.8	0.2	10	1.00	4.2	2.8	0.15	10
1.00	1.67	1.11	0.133	10 & 10	1.00	1.67	1.11	0.133	10 & 10
1.00					1.00	5.6	3.8	0.15	10
1.00	7.8	5.2	0.15	10	1.00	7.8	5.2	0.15	10
1.00	4.8	3.2	0.15	10	1.00	4.5	3.0	0.15	10
1.00	4.9	3.3	0.15	10	1.00	7.1	4.7	0.15	10
1.00	6.7	4.5	0.15	10	1.00	4.9	3.3	0.15	10
1.00	3.5	2.3	0.15	10	1.00	5.6	3.8	0.15	10
1.00					1.00	3.5	2.3	0.15	10
1.00	3.5	2.3	0.15	10	1.00	3.1	2.0	0.15	10
1.00	3.6	2.4	0.15	10	1.00	3.5	2.3	0.15	10
1.00	4.9	3.3	0.15	10	1.00	4.9	3.3	0.15	10
1.00	4.5	3.	0.15	10	1.00	4.5	3.	0.15	10
1.00	3.5	2.3	0.15	10	1.00	3.5	2.3	0.15	10
1.00	2.8	1.8	0.15	10	1.00	2.5	1.7	0.15	10

STATEMENT
Cost of Power to Municipalities

Municipality	Note	Interim rates at which power is billed to the Municipality and adjusted to cost at the end of the year									
		1912	1913	1914	1915	1916	1917	1918	1919	1920	1921
		\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Smith's Falls.....	D	.....	.....	.....	.....	.....	.....	28.00	28.00	28.00	40.00
Springfield.....	D	.....	.....	.....	.....	.....	65.00	65.00	65.00	65.00	65.00
St. Agatha.....		.....	.....	See Petersburg	.....	.....	.....	.....	.....	.....	.....
St. Catharines.....	B	.....	.....	14.00	14.00	14.00	14.00	14.00	14.00	14.00	14.00
St. George.....	D	.....	.....	.....	38.78	38.78	38.78	38.78	45.00	45.00	45.00
St. Jacob's.....	D	.....	.....	.....	.....	.....	32.44	42.18	32.00	32.00	35.00
St. Marys.....	B	38.00	29.50	29.50	29.50	28.00	28.00	28.00	28.00	28.00	32.00
St. Thomas.....	B	32.00	29.00	28.00	28.00	27.00	26.00	26.00	24.00	24.00	25.00
Stamford Township.....	B	.....	.....	.....	.....	.....	.....	16.57	15.00	15.00	16.00
Stayner.....	D	.....	.....	37.82	37.82	37.82	35.00	35.00	35.00	40.00	40.00
Stratford.....	A	32.00	30.00	30.00	30.00	29.00	27.00	27.00	25.00	25.00	27.00
Strathroy.....	B	.....	.....	.....	44.07	44.07	44.07	44.01	42.00	40.00	37.00
Sunderland.....	D	.....	.....	.....	82.68	81.00	50.00	50.00	55.00	85.00	85.00
Tara.....	D	.....	.....	.....	.....	.....	.....	37.00	37.00	85.00	90.00
Tavistock.....	D	.....	.....	.....	.....	.....	78.28	37.01	36.00	35.00	35.00
Teeswater.....		.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Thamesford.....	D	.....	.....	45.00	45.00	45.00	45.00	45.00	50.00	50.00	50.00
Thamesville.....	D	.....	.....	.....	45.40	45.40	45.40	45.00	50.00	60.00	55.00
Thorndale.....	D	.....	.....	45.00	45.00	45.00	45.00	45.00	50.00	60.00	60.00
Thornton.....	D	.....	.....	.....	.....	.....	.....	43.00	43.00	85.00	85.00
Tilbury.....	D	.....	.....	.....	39.45	39.45	39.45	39.45	45.00	50.00	50.00
Tillsonburg.....	B	32.00	32.00	32.00	32.00	35.00	35.00	35.00	32.00	30.00	30.00
Toronto.....	B	18.50	15.00	15.00	15.00	14.50	14.50	14.50	14.50	14.50	17.00
Toronto Township.....	D	.....	.....	.....	.....	.....	.....	.....	25.00	25.00	25.00
Tottenham.....	D	.....	.....	.....	.....	.....	.....	51.00	51.00	85.00	90.00
Victoria Harbor.....	D	.....	.....	.....	35.00	35.00	35.00	35.00	35.00	50.00	45.00
Walkerville.....	A	.....	.....	38.00	38.00	38.00	38.00	38.00	36.00	36.00	35.00
Wallaceburg.....	D	.....	.....	.....	38.45	38.45	38.45	38.45	38.00	38.45	35.00
Waterdown.....	D	37.50	26.00	26.00	26.00	26.00	26.00	26.00	26.00	26.00	31.00
Waterford.....	D	.....	.....	.....	39.00	39.00	39.00	39.00	39.00	33.00	33.00
Waterloo.....	B	26.00	23.50	22.50	22.50	22.00	21.00	21.00	20.00	20.00	21.00
Watford.....	D	.....	.....	.....	.....	59.45	59.45	59.45	65.00	85.00	85.00
Waubauskene.....	D	.....	.....	.....	35.00	35.00	25.00	25.00	30.00	45.00	45.00
Welland.....	B	.....	14.50	14.00	14.00	14.00	14.00	14.00	14.00	14.00	16.00
Wellington.....	D	.....	.....	.....	.....	.....	.....	.....	52.76	52.76	52.76
Wellesley.....	D	.....	.....	.....	.....	.....	39.96	39.96	39.00	39.00	39.00
West Hamilton, ext.....		.....	.....	Serve d by	.....	Anca ster	.....	.....	.....	.....	25.81
West Lorne.....	D	.....	.....	.....	.....	.....	55.60	55.60	55.00	55.00	50.00
Weston.....	B	30.00	30.00	30.00	30.00	30.00	30.00	30.00	25.00	23.00	23.00
Williamsburg.....	D	.....	.....	.....	25.09	30.00	30.00	30.00	30.00	50.00	73.89
Winchester.....	D	.....	.....	38.28	39.54	43.00	43.00	43.00	43.00	69.84	85.00
†Windsor.....	A	.....	.....	38.00	38.00	38.00	38.00	38.00	36.00	36.00	35.00
Wingham.....		.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Woodbridge.....	D	.....	.....	.....	33.83	33.83	33.83	33.83	33.00	31.00	31.00
Woodstock.....	B	26.00	23.00	23.00	23.00	23.00	21.00	21.00	20.00	20.00	21.00
Woodville.....	D	.....	.....	.....	70.24	70.00	50.00	50.00	55.00	80.00	80.00
Wyoming.....	D	.....	.....	.....	.....	38.34	38.34	38.34	38.00	60.00	60.00
York Township.....		.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Zurich.....	D	.....	.....	.....	.....	.....	.....	69.34	69.00	60.00	60.00

* Rate based on load characteristics and determined at end of year.
Note A.—Power delivered at 46,000, 26,400 or 22,000 volts.
Note B.—Power delivered at 13,200 or 12,000 volts.
†Windsor 1921 Rates for 60 cycle power are 25% higher than rates given here.

"F"—Concluded
and Power Rates to Consumers

Power Rates to Consumers

1920					1921				
Service Charge per H.P. per Month	1st 50 Hr. per Month per Kw-hr.	2nd 50 Hr. per Month per Kw-hr.	All Additional per Kw-hr.	Prompt Payment Discount	Service Charge per H.P. per Month	1st 50 Hr. per Month per Kw-hr.	2nd 50 Hr. per Month per Kw-hr.	All Additional per Kw-hr.	Prompt Payment Discount
\$ c.	c.	c.	c.	%	\$ c.	c.	c.	c.	%
1.00	3.6	2.4	0.15	10	1.00	3.6	2.4	0.15	10
1.00	7.8	5.2	0.15	10	1.00	7.8	5.2	0.15	10
					Rural Rates				
1.00	1.6	1.066	0.16	25 & 10	1.00	1.6	1.066	0.166	25 & 10
1.00	3.8	2.5	0.15	10	1.00	3.8	2.5	0.15	10
1.00	3.3	2.2	0.15	10	1.00	3.1	2.0	0.15	10
1.00	3.1	2.1	0.15	10	1.00	3.3	2.2	0.15	10
1.00	1.867	1.267	0.16	25 & 10	1.00	1.73	1.133	0.147	25 & 10
1.00	1.67	1.11	0.133	10 & 10	1.00	1.67	1.11	0.133	10 & 10
1.00	3.8	2.5	0.15	10	1.00	3.8	2.5	0.15	10
1.00	2.5	1.7	0.15	10	1.00	2.2	1.5	0.15	10
1.00	3.6	2.4	0.15	10	1.00	3.2	2.1	0.15	10
1.00	6.8	4.6	0.15	10	1.00	6.8	4.6	0.15	10
1.00	6.8	4.6	0.15	10	1.00	6.8	4.6	0.15	10
1.00	2.8	1.8	0.15	10	1.00	2.5	1.7	0.15	10
1.00	5.6	3.8	0.15	10	1.00	4.2	2.8	0.15	10
1.00	7.1	4.7	0.15	10	1.00	5.4	3.6	0.15	10
1.00	5.6	3.8	0.15	10	1.00	6.4	4.3	0.15	10
1.00	6.8	4.6	0.15	10	1.00	5.6	3.8	0.15	10
1.00	5.1	3.4	0.15	10	1.00	6.8	4.6	0.15	10
1.00	2.9	1.9	0.15	10	1.00	5.1	3.4	0.15	10
A.C. 1.25 & 1.00	1.5	0.75	0.4	10	1.00	2.8	1.8	0.15	10
D.C. 1.35 & 1.00	2.5	1.25	0.6	10	†A.C. 1.25 & 1.00	1.5	0.75	0.4	10
					†D.C. 1.35 & 1.00	2.5	1.25	0.6	10
1.00	4.2	2.8	0.15	10	1.00	4.2	2.8	0.15	10
1.00	6.8	4.6	0.15	10	1.00	6.8	4.6	0.15	10
1.00	5.6	3.8	0.15	10	1.00	5.6	3.8	0.15	10
1.00	3.5	2.3	0.15	10	1.00	3.1	2.0	0.15	10
1.00	3.6	2.4	0.15	10	1.00	3.2	2.1	0.15	10
1.00	3.3	2.2	0.15	10	1.00	3.3	2.2	0.15	10
1.00	3.5	2.3	0.15	10	1.00	3.1	2.0	0.15	10
1.00	1.67	1.11	0.133	10 & 10	1.00	1.67	1.11	0.133	10 & 10
1.00	7.1	4.7	0.15	10	1.00	7.1	4.7	0.15	10
1.00	4.9	3.3	0.15	10	1.00	4.9	3.3	0.15	10
1.00	1.73	1.13	0.147	25 & 10	1.00	1.73	1.13	0.147	25 & 10
1.00	4.9	3.3	0.15	10	1.00	5.4	3.6	0.15	10
1.00	3.9	2.6	0.15	10	1.00	3.9	2.6	0.15	10
1.00	2.8	1.8	0.15	10	1.00	2.8	1.8	0.15	10
1.00	6.5	4.4	0.15	10	1.00	4.9	3.3	0.15	10
1.00	2.0	1.33	0.167	10 & 10	1.00	2.133	1.33	0.173	25 & 10
1.00	4.2	2.8	0.3	10	1.00	6.4	4.3	0.15	10
1.00	4.5	3.0	0.15	10	1.00	6.4	4.3	0.15	10
1.00	3.5	2.3	0.15	10	1.00	3.1	2.0	0.15	10
					1.00	5.4	3.6	0.15	10
1.00	2.8	1.8	0.15	10	1.00	2.5	1.7	0.15	10
1.00	1.867	1.267	0.16	25 & 10	1.00	1.867	1.267	0.16	25 & 10
1.00	6.8	4.6	0.15	10	1.00	6.8	4.6	0.15	10
1.00	7.1	4.7	0.15	10	1.00	7.1	4.7	0.15	10
					1.00	2.11	1.39	0.167	10 & 10
1.00	7.1	4.7	0.15	10	1.00	6.8	4.6	0.15	10

† 1.25 and 1.35 for 1st 10 h.p. 1.00 for all additional h.p.

Note C.—Power delivered at 6,600 volts.

Note D.—Power delivered at 4,000 or 2,200 volts.

STATEMENT Lighting Rates

Municipality	1920							
	Domestic			Commercial			Prompt Payment Discount	Minimum Net Monthly Bill
	Per 100 Sq. Ft.	1st 3 Kw- hr. per 100 Sq. Ft. per Kw-hr.	All Additional per Kw-hr.	1st 30 Hr. per Kw-hr.	Next 70 Hr. per Kw-hr.	All Additional per Kw-hr.		
Acton.....	c.	c.	c.	c.	c.	c.	%	\$ c.
Ailsa Craig.....	3	3	1.5	6	3	0.6	10	0.75
Alexandria.....	3	6	3	12	6	1.2	10	0.75
Alliston.....	3	6	3	12	6	1.2	10	1.00
Ancaster.....	3	5	2.5	10	5	1	10	0.75
Apple Hill.....								
Arthur.....	3	7	3.5	14	7	1	10	1.50
Aylmer.....	3	5.5	2.75	11	5.5	1.1	10	0.75
Ayr.....	3	6	3	12	6	1.2	10	0.75
Baden.....	3	3	1.75	7	3.5	0.7	10	0.75
Barrie.....	3	2	1	4	2	0.4	10	0.75
Barton Township.....	3	3.0	1.5	5	2.5	0.15	10	0.75
Beachville.....	3	3.5	1.75	7	3.5	0.7	10	0.75
Beaverton.....	3	5	2	10	5	1	10	1.25
Beeton.....	3	7	3.5	14	7	1.4	10	1.50
Blenheim.....	3	5	2.5	10	5	1.0	10	0.75
Bloomfield.....	3	7	3.5	14	7	1.4	10	1.00
Bolton.....	3	6	3	12	6	1.2	10	1.00
Bothwell.....	3	7.5	3.75	15	7.5	1.5	10	1.00
Bradford.....	3	7	3.5	14	7	1.4	10	1.55
Brampton.....	3	2	1	4	2	0.4	10	0.50
Brantford.....	3	2	1	3.5	1.2	0.12	10	0.50
Brechin.....	3	7	3.5	14	7	1.4	10	1.50
Bridgeport.....	3	Kitchen er rate + 10%						
Brantford Twp.....	3	3	1.5	6	3	0.6	10	0.70
Breslau.....	3	6	3	12	6	1.2	10	1.00
Brooklyn.....	3	5	2.5	10	5	1	10	0.50
Broughdale.....	3	3	1.5				10	
Brigden.....	3	7.5	3.75	15	7.5	1.5	10	1.00
Brockville.....	3	5	2.5	10	5	1	10	0.75
Bullock's Corners and Greensville.....	3	4	2	8	4	0.8	10	0.75
Burford.....	3	7	3.5	14	7	1.4	10	1.50
Burgessville.....	3	5.5	2.75	11	5.5	1.1	10	0.75
Caledonia.....	3	3	1.5	6	3	0.6	10	0.75
Cannington.....	3	6	2	12	6	1.2	10	1.50
Carleton Place.....	3	4	2	8	4	0.8	10	1.00
Chatham.....	3	3.5	1.75	7	3.5	0.7	10	0.75
Chatsworth.....	3	6	3	12	6	1.2	10	1.00
Chesley.....	3	5	2.5	10	5	1	10	1.00
Chesterville.....	3	6	3	12	6	1.2	10	1.00
Chippawa.....	3	4.5	2.25	9	4.5	0.9	10	1.00
Clinton.....	3	4	2	8	4	0.8	10	0.75
Coldwater.....	3	5	2.5	10	5	1	10	1.25
Collingwood.....	3	2	1	4	2	0.4	10	0.75
Comber.....	3	7	3.5	14	7	1.4	10	1.00
Cookstown.....	3	7	3.5	14	7	1.4	10	1.50
Creemore.....	3	7	3.5	14	7	1.4	10	1.00
Dashwood.....	3	7	3.5	14	7	1.4	10	0.75
Delaware.....	3	7	3.5	14	7	1.4	10	1.25
Doon and Blair, ext.....	3	4	2	8	4	0.8	10	0.75
Dorchester.....	3	6	3	12	6	1.2	10	0.75
Drayton.....	3	7	3.5	14	7	1.4	10	1.00
Dresden.....	3	4.5	2.25	9	4.5	0.9	10	0.75

"G"

in Municipalities

1921								
Domestic				Commercial				Prompt Payment Discount
Per 100 Sq. Ft.	1st 3 Kw- hr. per 100 Sq. Ft. per Kw-hr.	All Additional per Kw-hr.	Minimum Net Monthly Bill	1st 30 Hr. per Kw-hr.	Next 70 Hr. per Kw-hr.	All Additional per Kw-hr.	Minimum Net Monthly Bill	
c.	c.	c.	\$ c.	c.	c.	c.	\$ c.	%
3	3	1.5	.....	6	3	0.6	0.75	10
3	5	2.5	.....	10	5	1.0	0.75	10
3	7	3.5	1.00	14	7	1.4	1.50	10
3	6	3	.....	12	6	1.2	1.00	10
3	5	2.5	.....	10	5	1	0.75	10
3	7	3.5	1.50	14	7	1.4	1.50	10
3	8	4	.....	16	8	1.6	1.50	10
3	5.0	2.5	.....	10	5	1	0.75	10
3	5	2.5	.....	10	5	1	1.00	10
3	2.5	1.25	.....	5	2.5	0.5	0.75	10
3	2	1	.....	4	2	0.4	0.75	10+10
10	per cent. above Hamilton			5	2.5	0.15	1.00	10
3	3	1.5	.....	6	3	0.6	0.75	10
3	5	2.5	.....	10	5	1	1.25	10
3	8	4	.....	16	8	1.6	1.50	10
3	4.5	2.25	.....	9	4.5	0.9	0.75	10
3	7	3.5	.....	14	7	1.4	1.00	10
3	6	3	.....	12	6	1.2	1.00	10
3	6	3	.....	12	6	1.2	1.00	10
3	8	4	.....	16	8	1.6	1.50	10
3	2	1	.....	4	2	0.4	0.75	10
3	2	1	.....	3.5	1.2	0.12	0.75	10
3	8	4	.....	16	8	1.6	1.50	10
3	3	Kitchen er rate	+10%	6	3	0.6	1.00	10
3		1.5	.....				
3			Rural	Rates				
3	5	2.5	.....	10	5	1	.....	10
5	3	1.5	.....					10
3	6	3	.....	12	6	1.2	1.00	10
3	6	3	.....	12	6	1.2	1.25	10
3	4	2	.....	8	4	0.8	1.00	10
3	7	3.5	.....	14	7	1.4	1.50	10
3	5.5	2.75	.....	11	5.5	1.1	0.75	10
3	3	1.5	.....	6	3	0.6	0.75	10
3	6	3	.....	12	6	1.2	1.50	10
3	4.5	2.25	.....	9	4.5	0.9	1.00	10
3	3	1.5	.....	6	3	0.6	0.75	10
3	7	3.5	.....	14	7	1.4	1.50	10
3	6	3	.....	12	6	1.2	1.25	10
3	7	3.5	.....	14	7	1.4	1.50	10
3	4	2	.....	8	4	0.8	1.00	10
3	4	2	.....	8	4	0.8	0.75	10
3	6	3	.....	12	6	1.2	1.25	10
3	3	1.5	.....	6	3	0.6	0.75	10
3	7	3.5	.....	14	7	1.4	1.25	10
3	7	3.5	.....	14	7	1.4	1.50	10
3	7	3.5	.....	14	7	1.4	1.00	10
3	7	3.5	.....	14	7	1.4	0.75	10
3	7	3.5	.....	14	7	1.4	1.25	10
3	4	2	.....	8	4	0.8	1.00	10
3	5.5	2.75	.....	11	5.5	1.1	0.75	10
3	6.5	3.25	.....	13	6.5	1.3	1.25	10
3	4	2	.....	8	4	0.8	0.75	10

STATEMENT Lighting Rates

Municipality	1920							Minimum Net Monthly Bill
	Domestic			Commercial			Prompt Payment Discount	
	Per 100 Sq. Ft.	1st 3 Kw- hr. per 100 Sq. Ft. per Kw-hr.	All Additional per Kw-hr.	1st 30 Hr. per Kw-hr.	Next 70 Hr. per Kw-hr.	All Additional per Kw-hr.		
	c.	c.	c.	c.	c.	c.	%	\$ c.
Drumbo.....	3	6	3	12	6	1.2	10	1.00
Dublin.....	3	7	3.5	14	7	1.4	10	1.50
Dundalk.....	3	4.5	2.25	9	4.5	0.9	10	1.00
Dundas.....	3	2	1	5	2	0.15	10	0.50
Dunnville.....	3	4	2	8	4	0.8	10	0.75
Durham.....	3	5	2.5	10	5	1	10	1.00
Dutton.....	3	3.5	1.75	7	3.5	0.7	10	0.75
Elmira.....	3	3	1.5	6	3	0.6	10	0.75
Elmvale.....	3	4.5	2.25	9	4.5	0.9	10	1.00
Elmwood.....	3	5	2.5	10	5	1	10	1.25
Elora.....	3	3	1.5	6	3	0.6	10	0.75
Embro.....	3	7.5	3.75	15	7.5	1.5	10	1.50
Etobicoke Twp....	3	4.5	2.25	9	4.5	0.9	10	0.75
Exeter.....	3	4.5	2.25	9	4.5	0.9	10	0.75
Fergus.....	3	3	1.5	6	3	0.6	10	0.75
Flesherton.....	3	4	2	8	4	0.8	10	1.25
Ford City.....	3	4	2	8	4	0.8	10	0.75
Forest.....	3	7	3.5	14	7	1.4	10	1.00
Galt.....	3	2	1	4	2	0.4	10	0.50
Gamebridge.....	3+50c.	8	4	16	8	1.6	10	1.50
Georgetown.....	3	2.5	1.25	5	2.5	0.5	10	0.75
Glencoe.....	3	8	4	16	8	1.6	10	1.00
Glen Williams, ext.	3	4	2	8	4	0.8	10	0.75
Goderich.....	3	3.5	1.75	7	3.5	0.7	10	0.75
Grand Valley.....	3	7	3.5	14	7	1.4	10	1.50
Grantham Twp....			Rural	Rates				
Granton.....	3	6		12	6	1.2	10	1.00
Gravenhurst.....	3	4.5	2.2	9	4.5	0.9	10	1.00
Guelph.....	3	2	1	4	2.0	0.4	10	0.50
Hagersville.....	3	3	1.5	6	3	0.6	10	0.75
Hamilton.....	3	2	1	3.5	1.2	0.12	10	0.50
Hanover.....	3	4.5	2.25	9	4.5	0.9	10	0.75
Harriston.....	3	5	2.5	10	5	1	10	1.00
Hensall.....	3	6	3	12	6	1.2	10	1.00
Hespeler.....	3	3	1.5	6	3	0.6	10	0.75
Highgate.....	3	6.5	3.25	13	6.5	1.3	10	1.00
Holstein.....	3	8	4	16	8	1.6	10	1.50
Horning's Mills....	3	7	3.5	14	7	1.4	10	1.50
Huntsville.....	3	6	3	12	6	1.2	10	1.00
Ingersoll.....	3	2	1	4	2	0.4	10	0.75
Kemptville.....								
Kincardine.....								
Kingston.....	3	4	2	8	4	0.8	10	
Kirkfield.....	3	6	3	12	6	1.2	10	1.50
Kitchener.....	3	2	1	4	2.0	0.4	10	0.50
Lambeth.....	3	6	3	12	6	1.2	10	1.25
Lanark.....								
Lancaster.....								
Listowel.....	3	4	2	8	4	0.8	10	0.75
London.....	3	2	1	4	2.0	0.4	10	0.50
Lucan.....	3	4	2	8	4	0.8	10	0.75
Lucknow.....								
Lynden.....	3	5	2.5	10	5	1	10	1.50

**"G"—Continued
in Municipalities**

1921								
Domestic				Commercial				Prompt Payment Discount
Per 100 Sq. Ft.	1st 3 Kw- hr. per 100 Sq. Ft. per Kw-hr.	All Additional per Kw-hr.	Minimum Net Monthly Bill	1st 30 Hr. per Kw-hr.	Next 70 Hr. per Kw-hr.	All Additional per Kw-hr.	Minimum Net Monthly Bill	
c.	c.	c.	\$ c.	c.	c.	c.	\$ c.	%
3	6	3	.....	12	6	1.2	1.00	10
3	7	3.5	.....	14	7	1.4	1.50	10
3	5.5	2.75	.....	11	5.5	1.1	1.00	10
3	2	1	.....	5	2	0.15	0.75	10
3	4	2	.....	8	4	0.8	0.75	10
3	5	2.5	.....	10	5	1	1.00	10
3	3	1.5	.....	6	3	0.6	0.75	10
3	3	1.5	.....	6	3	0.6	0.75	10
3	4.5	2.25	.....	9	4.5	0.9	1.00	10
3	6	3.0	.....	12	6	1.2	1.50	10
3	3	1.5	.....	6	3	0.6	0.75	10
3	7.5	3.75	.....	15	7.5	1.5	1.50	10
3	4	2	.....	8	4	0.8	0.75	10
3	4	2	.....	8	4	0.8	0.75	10
3	3.5	1.75	.....	7	3.5	0.7	0.75	10
3	5	2.5	.....	10	5	1.0	1.50	10
3	4	2	.....	8	4	0.8	0.75	10
3	6	3	.....	12	6	1.2	1.00	10
3	2	1	.....	4	2	0.4	0.75	10
3+50c.	8	4	.....	16	8	1.6	1.50	10
3	2	1	.....	4	2	0.4	0.75	10
3	8	4	.....	16	8	1.6	1.00	10
3	4	2	.....	8	4	0.8	0.75	10
3	3.5	1.75	.....	7	3.5	0.7	0.75	10
3	8	4	.....	16	8	1.6	1.50	10
Rural				Rates				
3	6	3	.....	12	6	1.2	1.00	10
3	4.5	2.25	.....	9	4.5	0.9	1.00	10
3	2	1	.....	4	2	0.4	0.75	10
3	2.5	1.25	.....	5	2.5	0.5	0.75	10
3	2	1	.....	3.5	1.2	0.12	0.75	10
3	5	2.5	.....	10	5	1	1.00	10
3	4.5	2.25	.....	9	4.5	0.9	1.00	10
3	6	3	.....	12	6	1.2	1.00	10
3	3	1.5	.....	6	3	0.6	0.75	10
3	6	3	.....	12	6	1.2	1.00	10
3	9	4.5	.....	18	9	1.8	1.50	10
3	7	3.5	.....	14	7	1.4	1.50	10
3	6	3	.....	12	6	1.2	1.00	10
3	2	1	.....	4	2	0.4	0.75	10
3	6	3	.....	12	6	1.2	1.00	10
3	3.5	1.75	.....	7	3.5	0.4	0.75	10
3	6	3	.....	12	6	1.2	1.50	10
3	2	1	.....	4	2	0.4	0.75	10
3	6	3	.....	12	6	1.2	1.25	10
3	8	4	1.65	16	8	1.6	2.50	10
3	8	4	1.75	16	8	1.6	2.50	10
3	4	2	.....	8	4	0.8	0.75	10
3	2	1	.....	4	2	0.4	0.75	10
3	4	2	.....	8	4	0.8	0.75	10
3	7.5	3.75	.....	15	7.5	1.5	1.50	10
3	4.5	2.25	.....	9	4.5	0.9	1.50	10

STATEMENT Lighting Rates

Municipality	1920							Minimum Net Monthly Bill
	Domestic			Commercial			Prompt Payment Discount	
	Per 100 Sq. Ft.	1st 3 Kw- hr. per 100 Sq. Ft. per Kw-hr	All Additional per Kw-hr	1st 30 Hr. per Kw-hr.	Next 70 Hr. per Kw-hr.	All Additional per Kw-hr.		
	c.	c.	c.	c.	c.	c.	%	\$ c.
Markdale.....	3	4	2	8	4	0.8	10	1.00
Martintown.....								
Maxville.....								
Markham.....	3	10	5	20	10	2.0	10	1.00
Midland.....	3	3	1.5	6	3	0.6	10	0.75
Milton.....	3	3	1.5	6	3	0.6	10	0.75
Milverton.....	3	4	2	8	4	0.8	10	0.75
Mimico.....	3	2.5	1.25	5	2.5	0.5	10	0.75
Mitchell.....	3	4	2	8	4	0.8	10	0.75
Moorefield.....	3	7.5	3.75	15	7.5	1.5	10	1.50
Mount Brydges...	3	6	3	12	6	1.2	10	1.25
Mount Forest.....	3	4.5	2.2	9	4.5	0.9	10	0.75
Niagara-on-the- Lake.....	3	4	2	8	4	0.8	10	0.75
Neustadt.....	3	6	3	12	6	1.2	10	1.00
Newbury.....								
New Hamburg....	3	3	1.5	6	3	0.6	10	0.75
New Toronto.....	3	2.5	1.25	5	2.5	0.5	10	0.50
Niagara Falls....	3	2	1	4	1.5	0.15	10	0.50
Norwich.....	3	3	1.5	6	3	0.6	10	0.75
Oil Springs.....	3	5	2.5	10	5	1	10	1.00
Omeme.....	3	5	2.5	10	5	1	10	1.00
Orangeville.....	3	4.5	2.25	9	4.5	0.9	10	1.00
Ottawa.....	3	2	1.5	5	2.2	0.5	10	0.50
Otterville.....	3	7	3.5	14	7	1.4	10	0.75
Owen Sound.....	3	3	1.5	6	3	0.6	10	0.75
Palmerston.....	3	4.5	2.25	9	4.5	0.9	10	0.75
Paris.....	3	2	1	5	2	0.5	10	0.50
Parkhill.....	3	9	4.5	18	9	1.8	10	1.50
Perth.....	3	4.5	2.25	9	4.5	0.9	10	1.00
Penetang.....	3	4	2	8	4	0.8	10	1.00
Peterboro'.....	3	2.5	1.25	5	2.5	0.5	10	0.75
Petersburg, ext....	3	6	3	12	6	1.2	10	1.00
Petrolia.....	3	4.5	2.25	9	4.5	0.9	10	0.75
Plattsville.....	3	6	3	12	6	1.2	10	0.75
Pictou.....	3	7	3.5	14	7	1.4	10	0.75
Port Arthur.....	3	2.5	1.5	5	2.5	.....	10	0.75
Port Colborne....	3	4	2	8	4	0.8	10	0.75
Port Credit.....	3	3	1.5	6	3	0.6	10	0.75
Port Dalhousie....	3	4.5	2.25	9	4.5	0.9	10	0.75
Port McNicoll....	3	4.5	2.25	9	4.5	0.9	10	1.25
Port Robinson, ext.	3	3	1.5	6	3	0.6	10	0.75
Port Stanley.....	3	4	2	8	4	0.8	10	0.75
Prescott.....	3	4	2	8	4	0.8	10	0.75
Preston.....	3	2.5	1.25	5	2.5	0.5	10	0.75
Priceville.....								
Princeton.....	3	7.5	3.75	15	7.5	1.5	10	1.50
Ridgetown.....	3	4.5	2.25	9	4.5	0.9	10	0.75
Ripley.....								
Rockwood.....	3	5	2.5	10	5	1	10	1.00
Rodney.....	3	8	4	16	8	1.6	10	0.75
Sarnia.....	3	4	2	8	4	0.8	10	0.75
Sandwich.....	3	4	2	8	5	0.8	10	0.75
Scarboro Twp....	3	5.5	2.75	11	5.5	1.1	10	0.75
Seaforth.....	3	3.5	1.75	7	3.5	0.7	10	0.75

**"G"—Continued
in Municipalities**

1921								
Domestic				Commercial				
Per 100 Sq. Ft.	1st 3 Kw- hr. per 100 Sq. Ft. per Kw-hr.	All Additional per Kw-hr.	Minimum Net Monthly Bill	1st 30 Hr. per Kw-hr.	Next 70 Hr. per Kw-hr.	All Additional per Kw-hr.	Minimum Net Monthly Bill	Prompt Payment Discount
c.	c.	c.	\$ c.	c.	c.	c.	\$ c.	%
3	4	2	.....	8	4	0.8	1.00	10
3	7	3½	1.50	14	7	1.4	2.00	10
3	8	4	1.50	16	8	1.6	1.50	10
3	9	4.5	.....	18	9	1.8	1.00	10
3	3	1.5	.....	6	3	0.6	0.75	10
3	3	1.5	.....	6	3	0.6	0.75	10
3	4	2	.....	8	4	0.8	0.75	10
3	2	1	.....	4	2	0.4	0.75	10
3	3	1.5	.....	6	3	0.6	0.75	10
3	7	3.5	.....	14	7	1.4	1.50	10
3	6	3	.....	12	6	1.2	1.25	10
3	5.5	2.75	.....	11	5.5	1.1	1.00	10
3	4	2	.....	8	4	0.8	0.75	10
3	7	3.5	.....	14	7	1.4	1.50	10
3	8	4	.....	16	8	1.6	1.00	10
3	3	1.5	.....	6	3	0.6	0.75	10
3	2	1	.....	4	2	0.4	0.75	10
3	2	1	.....	4	1.5	0.15	0.75	10
3	3	1.5	.....	6	3	0.6	0.75	10
3	5	2.5	.....	10	5	1	1.00	10
3	5	2.5	.....	10	5	1	1.00	10
3	2	1.5	.....	5	2.2	0.5	0.75	10
3	6	3	.....	12	6	1.2	0.75	10
3	3	1.5	.....	6	3	0.6	0.75	10
3	4	2	.....	8	4	0.8	0.75	10
3	2	1	.....	4	2	0.4	0.75	10
3	8	4	.....	16	8	1.6	1.50	10
3	5	2.5	.....	10	5	1.0	1.00	10
3	4	2	.....	8	4	0.8	1.00	10
3	2.5	1.25	.....	5	2.5	0.5	0.75	10
3	6	3	.....	12	6	1.2	1.00	10
3	4	2	.....	8	4	0.8	0.75	10
3	5	2.5	.....	10	5	1	1.00	10
3	6	3	.....	12	6	1.2	0.75	10
3	2	1	.....	5	2.5	0.5	0.75	10
3	4	2	.....	8	4	0.8	0.75	10
3	3	1.5	.....	6	3	0.6	0.75	10
3	4.5	2.25	.....	9	4.5	0.9	0.75	10
3	6	3	.....	12	6	1.2	1.25	10
3	3	1.5	.....	6	3	0.6	0.75	10
3	4	2	.....	8	4	0.8	0.75	10
3	5	2.5	.....	10	5	1	1.25	10
3	2.5	1.25	.....	5	2.5	0.5	0.75	10
3	6	3	.....	12	6	1.2	1.50	10
3	7.5	3.75	.....	15	7.5	1.5	1.50	10
3	3.5	1.75	.....	7	3.5	0.7	0.75	10
3	7.5	3.75	.....	15	7.5	1.5	1.50	10
3	5	2.5	.....	10	5	1	1.00	10
3	6	3	.....	12	6	1.2	0.75	10
3	3	1.5	.....	6	3	0.6	0.75	10
3	4	2	.....	8	4	0.8	0.75	10
3	5.5	2.75	.....	11	5.5	1.1	0.75	10
3	3	1.5	.....	6	3	0.6	0.75	10

STATEMENT Lighting Rates

Municipality	1920							Minimum Net Monthly Bill
	Domestic			Commercial			Prompt Payment Discount	
	Per 100 Sq. Ft.	1st 3 Kw- hr. per 100 Sq. Ft. per Kw-hr.	All Additional per Kw-hr.	1st 30 Hr. per Kw-hr.	Next 70 Hr. per Kw-hr.	All Additional per Kw-hr.		
	c.	c.	c.	c.	c.	c.	%	\$ c.
Sebringville, ext...	3	5	2.5	10	5	1	10	0.75
Shelburne.....	3	4.5	2.25	9	4.5	0.9	10	1.00
Simcoe.....	3	3.5	1.75	7	3.5	0.7	10	0.75
Smith's Falls.....	3	5	2.5	10	5	1	10	1.00
Springfield.....	3	7	3.5	14	7	1.4	10	1.00
St. Agatha.....	3	6	3	12	6	1.2	10	0.75
St. Catharines.....	3	2	1	4	2	0.4	10	0.50
St. George.....	3	5	2.5	10	5	1	10	0.75
St. Jacob's.....	3	5	2.5	10	5	1	10	0.75
St. Marys.....	3	3	1.5	6	3	0.6	10	0.75
St. Thomas.....	3	2	1	4	2	0.4	10	0.50
Stamford Twp.....	3	3	1.5	6	3	0.6	10	0.75
Stayner.....	3	6	3	12	6	1.2	10	1.00
Stratford.....	3	2	1	4	2	0.4	10	0.50
Strathroy.....	3	4	2	8	4	0.8	10	0.75
Sunderland.....	3	7	.....	14	7	1.4	10	1.50
Tara.....	3	7	3.5	14	7	1.4	10	1.50
Tavistock.....	3	3.5	1.75	7	3.5	0.7	10	0.75
Tecumseh, ext.....	3	5	2.5	10	5	1	10	0.75
Teeswater.....	.....	.....	.....	.....	.....	.....	.....	.....
Thamesford.....	3	7	3.5	14	7	1.4	10	0.75
Thamesville.....	3	6	3	12	6	1.2	10	1.00
Thorndale.....	3	7	3.5	14	7	1.4	10	1.00
Thornton.....	3	7	3.5	14	7	1.4	10	1.50
Tilbury.....	3	5	2.5	10	5	1	10	1.00
Tillsonburg.....	3	3	1.5	6	3	0.6	10	0.75
Toronto.....	3	2	1	5	2.5	0.5	10	0.50
Toronto Twp.....	1.50	4.5	2.25	.....	.....	.....	.....	0.75
Tottenham.....	3	7	3.5	14	7	1.4	10	1.50
Victoria Harbor.....	3	4	2	8	4	0.8	10	1.00
Walkerville.....	3	4	2	8	4	0.8	10	0.75
Wallaceburg.....	3	5	2.5	10	5	1	10	0.75
Waterdown.....	3	4	2	8	4	0.8	10	0.75
Waterford.....	3	4	2	8	4	0.8	10	0.75
Waterloo.....	3	2	1	4	2	0.4	10	0.50
Watford.....	3	7.5	3.75	15	7.5	1.5	10	1.00
Waubausheene.....	3	7	3.5	14	7	1.4	10	1.25
Welland.....	3	2	1	5	2	0.15	10	0.50
Wellesley.....	3	4.5	2.25	9	4.5	0.9	10	0.75
Wellington.....	3	5.5	2.75	11	5.5	1.1	10	0.75
West Hamilton, ext	3	4	2	8	4	0.8	10	0.75
West Lorne.....	3	7	3.5	14	7	1.4	10	0.75
Weston.....	3	2	1	4	2	0.4	10	0.50
Williamsburg.....	3	5	2.5	10	5	1	10	1.00
Winchester.....	3	5	2.5	10	5	1	10	1.00
Windsor.....	‡ 3	4	2	8	4	0.8	10	0.50
Sandwich.....								
Wingham.....	.....	.....	.....	.....	.....	.....	.....	.....
Woodbridge.....	3	3	1.5	6	3	0.6	10	0.75
Woodstock.....	3	2	1	4	2	0.4	10	0.50
Woodville.....	3	7	2	14	7	1.4	10	1.50
Wyoming.....	3	7.5	3.75	15	7.5	1.5	10	1.00
York Township.....	.....	.....	.....	.....	.....	.....	.....	.....
Zurich.....	3	7.5	3.75	15	7.5	1.5	10	1.00

‡ 60 cycle lighting rates 25% higher.

“ G ”—Concluded in Municipalities

1921								
Domestic				Commercial				Prompt Payment Discount
Per 100 Sq. Ft.	1st 3 Kw- hr. per 100 Sq. Ft. per Kw-hr.	All Additional per Kw-hr.	Minimum Net Monthly Bill	1st 30 Hr. per Kw-hr.	Next 70 Hr. per Kw-hr.	All Additional per Kw-hr.	Minimum Net Monthly Bill	
c.	c.	c.	\$ c.	c.	c.	c.	\$ c.	%
3	5	2.5	.....	10	5	1	0.75	10
3	5.5	2.75	.....	11	5.5	1.1	1.25	10
3	2.5	1.25	.....	5	2.5	0.5	0.75	10
3	5	2.5	.....	10	5	1	1.00	10
3	7	3.5	.....	14	7	1.4	1.00	10
Rural				Rates				
3	2	1	.....	4	1.5	0.15	0.75	10
3	4	2	.....	8	4	0.8	1.00	10
3	4	2	.....	8	4	0.8	1.00	10
3	3	1.5	.....	6	3	0.6	0.75	10
3	2	1	.....	4	2	0.4	0.75	10
3	3	1.5	.....	6	3	0.6	0.75	10
3	2	1	.....	4	2	0.4	0.75	10
3	3	1.5	.....	6	3	0.6	0.75	10
3	8	4	.....	16	8	1.6	1.50	10
3	8	4	.....	16	8	1.6	1.50	10
3	2.5	1.25	.....	5	2.5	0.5	1.00	10
3	5	2.5	.....	10	5	1	0.75	10
3	5	2.5	.....	10	5	1	1.50	10
3	6	3	.....	12	6	1.2	0.75	10
3	6	3	.....	12	6	1.2	1.00	10
3	6.5	3.25	.....	13	6.5	1.3	1.00	10
3	7	3.5	.....	14	7	1.4	1.50	10
3	5	2.5	.....	10	5	1	1.25	10
3	3	1.5	.....	6	3	0.6	0.75	10
3	2	1	.....	5	3	1.0	0.75	10
3	4	2	.....	16	8	1.6	1.50	10
3	8	4	.....	10	5	1	1.00	10
3	5	2.5	.....	6	3	0.6	0.75	10
3	4	2	.....	8	4	0.8	0.75	10
3	3	1.5	.....	6	3	0.6	0.75	10
3	3	1.5	.....	6	3	0.6	0.75	10
3	2	1	.....	4	2	0.4	0.75	10
3	7.5	3.75	.....	15	7.5	1.5	1.00	10
3	7	3.5	.....	14	7	1.4	1.25	10
3	2	1	.....	4	2	0.4	0.75	10
3	4	2	.....	8	4	0.8	1.00	10
3	6	3	.....	12	6	1.2	1.00	10
3	4	2	.....	8	4	0.8	0.75	10
3	6	3	.....	12	6	1.2	0.75	10
3	2	1	.....	4	2	0.4	0.75	10
3	6	3	.....	12	6	1.2	1.50	10
3	6	3	.....	12	6	1.2	1.50	10
3	3	1.5	.....	6	3	0.6	0.75	10
3	6	3	.....	12	6	1.2	1.00	10
3	3	1.5	.....	6	3	0.6	0.75	10
3	2	1	.....	4	2	0.4	0.75	10
3	7	3.5	.....	14	7	1.4	1.50	10
3	7.5	3.75	.....	15	7.5	1.5	1.00	10
3	3	1.5	.....	6	3	0.6	0.75	10
3	6	3	.....	12	6	1.2	1.00	10

APPENDIX

ACTS

Chapter 20, 1921.

An Act to amend The Power Commission Act

HIS MAJESTY, by and with the advice and consent of the Legislative Assembly of the Province of Ontario, enacts as follows:—

1. This Act may be cited as *The Power Commission Act*, 1921, and shall come into force on the day on which it receives the Royal Assent. Short title.

2. By-law No. 1198 of the Corporation of the City of Sarnia; By-law No. 690 of the Corporation of the Town of Thorold; By-law No. 309 of the Corporation of the Town of Merritton; By-laws Nos. 321 and 323 as amended by By-law No. 331 of the Corporation of the Town of Alexandria; By-laws Nos. 603 and 765 of the Corporation of the Town of Kincardine; By-laws Nos. 817 and 818 of the Corporation of the Town of Wingham; By-laws Nos. 721 and 724 of the Corporation of the Town of Uxbridge; By-laws Nos. 235 and 236 of the Corporation of the Village of Newbury; By-laws 7 of 1919 and 8 of 1919 of the Corporation of the Village of Lucknow; By-laws 448 and 454 of the Corporation of the Village of Norwood; By-laws Nos. 565 and 572 of the Corporation of the Village of Lakefield; By-laws Nos. 10 of 1919 and 11 of 1919 of the Corporation of the Village of Teeswater; By-laws Nos. 389 and 390 of the Corporation of the Village of Lancaster; By-law No. 591 of the Corporation of the Village of Lanark; By-law No. 775 of the Corporation of the Village of Port Perry; By-law No. 5 of 1920 of the Corporation of the Village of Wroxeter; By-laws Nos. 413 and 414 of the Corporation of the Village of Maxville; By-laws Nos. 241 and 242 of the Corporation of the Village of Kemptville; By-laws Nos. 503 and 504 of the Corporation of the Village of Kirkfield; By-law No. 20 of 1919 of the Police Village of Priceville; By-law No. 2 of 1920 of the Police Village of Martin-town; By-law No. 358 of the Police Village of Apple Hill; By-law No. 313 of the Corporation of the Township of Winchester; and all the debentures issued or to be issued or purporting to be issued, under any of the said by-laws which authorize the issue of debentures, are confirmed and declared to be legal, valid and binding upon such corporations and the ratepayers thereof, respectively, and shall not be open to question upon any ground whatsoever, notwithstanding the requirements of *The Power Commission Act*, or the amendments thereto or any other Act of this Legislature. By-laws confirmed.

Chapter 21, 1921.

An Act to make more Equal Provision for the Cost of Hydro-Electric Power in Ontario.

HIS MAJESTY, by and with the advice and consent of the Legislative Assembly of the Province of Ontario, enacts as follows:—

Short title.

1. This Act may be cited as *The Rural Hydro-Electric Distribution Act, 1921*.

Fund account.

2. There shall be established a fund to be known as The Hydro-Electric Power Extension Fund, hereinafter called the Fund, and the Treasurer of Ontario shall open in the books of the Province an account to be known as The Hydro-Electric Power Extension Fund Account.

Amounts to be placed annually to credit of fund.

3. There shall be placed to the credit of the said fund in such account annually at such time as the Lieutenant-Governor in Council may direct:

(a) A sum equivalent to the total amount falling due to the province from the rentals of water powers since the 1st day of January, 1918, but not including rentals falling due under agreements entered into by the Commissioners of the Queen Victoria Niagara Falls Park for the development of power within the park;

(b) A sum equivalent to the revenue derived from the rentals payable or collectable under the several agreements between the Commissioners of the Queen Victoria Niagara Falls Park and certain companies developing power in the Queen Victoria Niagara Falls Park after deducting any sums required to meet the charges and payments referred to in sections 21 and 23 of *The Queen Victoria Niagara Falls Park Act*;

(c) Such additional sums as may from time to time be voted by the Legislature of the Province of Ontario for the purposes hereinafter mentioned.

Where power supplied to rural power districts.

4. Where power is supplied to a rural power district under the provisions of *The Power Commission Act* and amendments thereto there may be paid to the municipality or commission distributing the power in such rural power district upon the recommendation of The Hydro-Electric Power Commission of Ontario and the order of the Lieutenant-Governor in Council, a sum not exceeding fifty per cent.

of the capital cost of constructing and erecting in the rural power zone primary transmission lines and cables required for the delivery of power in such rural power district.

5. The grant made under this Act shall be payable out of the Consolidated Revenue Fund, and the sums required to be credited to the Fund shall be chargeable to the Consolidated Revenue Fund, and every grant of money made under this Act shall be debited to the Fund in the said account and the said account shall be so kept that at all times it shall show the amounts properly credited to the Fund as provided by section 3 and all amounts chargeable thereto.

Grant, how payable.

6. The Lieutenant-Governor in Council may make regulations for the better carrying out of the provisions of this Act.

Regulations.

7. This Act shall come into force on the 1st day of June, 1921.

Commencement of Act.

Chapter 22, 1921.

An Act to confirm a certain Agreement between the Hydro-Electric Power Commission of Ontario and the Corporation of the City of Guelph.

HIS MAJESTY, by and with the advice and consent of the Legislative Assembly of the Province of Ontario, enacts as follows:—

1. This Act may be cited as *The Guelph Railway Act, 1921*.

Short title.

2. In this Act,—

Interpretation.

(a) "Commission" shall mean Hydro-Electric Power Commission of Ontario;

"Commission."

(b) "Corporation" shall mean Municipal Corporation of the City of Guelph;

"Corporation."

(c) "Railway" shall mean Guelph Radial Railway.

"Railway."

3. The agreement set out in Schedule "A" to this Act, dated the 8th day of December, 1920, and made between the Municipal Corporation of the City of Guelph of the first part, the Hydro-Electric Power Commission of Ontario of the second part, and the Guelph Radial Railway Company of the third part and approved by Order in Council dated the 27th day of April, A.D. 1921, is confirmed and declared to be legal, valid and binding upon the Municipal Corporation of the

Agreement confirmed.

City of Guelph and the ratepayers thereof, the Hydro-Electric Power Commission of Ontario, and the Guelph Radial Railway Company, anything in any general or special Act of this Legislature or in any by-law passed under any such Act to the contrary notwithstanding, and on, from and after the 1st day of May, 1921, all the assets, undertakings and property of the Guelph Radial Railway shall be vested in the Commission free from encumbrances, charges and liabilities, and the said Commission shall have and may exercise under and subject to the said agreement, all the powers, rights and privileges of the Guelph Radial Railway Company in connection with the construction, equipment, maintenance and operation of the said street railway within the City of Guelph, and in such other territory as may be necessary to enable the Commission to carry out the terms of the said agreement, and in addition thereto, shall, subject to the terms of the said agreement, have all the powers, rights and privileges which may be exercised by the Commission with respect to a railway constructed by the Commission under *The Hydro-Electric Railway Act of Ontario*.

Bond issue
by
Commission.

4.—(1) The Commission is authorized to issue bonds dated the 1st day of May, 1921, and bearing interest at the rate of six per cent. per annum, payable half-yearly, and maturing not more than twenty years from the said date, to the amount of \$150,000.

Bonds to be
a charge
upon rail-
way, etc.

(2) The bonds issued shall be a charge upon the railway and all the assets, rights, privileges, works, property and effects belonging thereto or held or used in connection therewith, provided that with the approval of the Lieutenant-Governor in Council the Commission may dispose of any property not required for the purposes of the said railway and use or dispose of the whole or part of the proceeds thereof in expenditures on capital account, or may invest the whole or part thereof in securities of the Province of Ontario for the retirement of the said bonds on maturity.

Retirement
of bonds.

Increase of
bond issue.

(3) The Commission, with the consent of the Corporation, may from time to time increase the said bond issue as may be deemed necessary to cover the capital cost of extensions or improvements or additional works or equipment of any kind required for the railway.

Application
of revenue
to sinking
fund for
retirement
of bonds.

(4) For the purpose of providing for the payment of such bonds and the interest thereon, the Commission shall, in each year after the expiration of ten years from the said date, out of the revenue of the railway, after payment of working or operating expenses, including the supply of electrical power or energy, and the cost of administration and the payments provided for in clause 2a of the said agreement and the annual charges for interest, set aside annually such sum as may be necessary to provide a sinking fund on a basis of not more than 40 years for the payment of all the bonds issued on account of

such railway which shall be held for and applied towards the payment of such bonds at maturity, and the Commission shall have power from time to time to issue bonds under this Act for the purpose of providing for such additional moneys as may be necessary, with the accumulated sinking fund on hand, to repay the bonds previously issued when the same respectively mature, but no bonds shall be issued under the authority of this section maturing at a later date than the 1st day of May, 1971.

(5) Section 7 of *The Hydro-Electric Railway Act, 1914*, and ^{1914, c. 31, s. 7.} amendments thereto and section 5 of *The Hydro-Electric Railway Act, 1920*, ^{1920, c. 57, s. 5.} shall apply to the bonds to be issued by the Commission under ^{Application.} this section.

5.—(1) The Corporation is authorized to issue debentures to an ^{Issue of} amount not exceeding \$300,000, payable in fifty years from the 1st day ^{debentures.} of May, 1921, and bearing interest at the rate of six per cent. per annum, payable half-yearly at the Bank of Montreal at Toronto.

(2) On or before the 1st day of May, 1921, the Corporation shall ^{Deposits of} issue and deposit the said debentures with the Commission, and ^{debentures} is ^{of corpora-} further authorized to and shall from time to time thereafter, upon the ^{tion with} requisition in writing of the Commission, issue and deposit with the ^{Commission.} Commission further similar debentures for the same amount as any increase of the bond issue of the Commission to cover the capital cost of extensions, improvement or additional works or equipment of the said railway, as provided in subsection 3 of section 4.

(3) In the event of the revenue derived from the operation of the ^{Where} railway being insufficient in any year to meet operating or working ^{revenue in-} expenses including electrical power or energy and the cost of adminis- ^{sufficient.} tration and the payments provided for in clause 2a of the said agreement and the annual charges for interest and sinking fund on the bonds and for the renewal of any works belonging in whole or in part to the railway, such deficits shall be paid on demand of the Commission by the Corporation, and any arrears of the Corporation shall bear interest at six per cent. per annum. If the Corporation shall make default in payment of any such deficit the Commission shall thereupon sell or otherwise dispose of so much of the debentures of the Corporation as shall be necessary to supply such deficiency at such rates of discount or premium and on such terms and conditions as the Commission in its sole discretion shall deem to be in the interest of the railway, the proceeds of such debentures being used solely for the purposes herein contained.

(4) If the remaining debentures are insufficient in the opinion of ^{Deposit of} the Commission to meet all payments required to be made by the Cor- ^{deficiency.} poration under this Act or the said agreements, the Corporation is ^{to make up} hereby authorized to and shall issue and deposit forthwith with the ^{debentures}

Commission similar debentures to an amount sufficient in the opinion of the Commission to make up the deficiency.

Debentures
to be
collateral
security
for bonds.

(5) All debentures issued and deposited with the Commission under this section shall be held by the Commission as collateral security for the bonds issued by the Commission under section 9 and for any payments required to be made by the Corporation or the Commission under this Act or the said agreements.

Application
of 1914,
c. 31.

6. Subject to the provisions of this Act and to the terms of the said agreement, the provisions of *The Hydro-Electric Railway Act, 1914*, and amendments thereto, shall *mutatis mutandis* apply to the purchase, construction, equipment, maintenance and operation of the said railway, to the same extent as if the said railway had been a railway purchased or constructed, equipped, maintained and operated by The Hydro-Electric Power Commission of Ontario under the provisions of *The Hydro-Electric Railway Act of Ontario*.

Commence-
ment of Act.

7. This Act shall come into force on the day upon which it receives the Royal Assent.

SCHEDULE "A"

This agreement, made the 8th day of December, 1920.

BETWEEN

The Municipal Corporation of the City of Guelph (hereinafter called "The Corporation") of the first part;

and

The Hydro-Electric Power Commission of Ontario (hereinafter called "The Commission") of the second part;

and

The Guelph Radial Railway Company (hereinafter called "The Guelph Railway") of the third part.

Whereas the Corporation owns and controls all the outstanding shares of the capital stock of the Guelph Railway, all of the said shares being fully paid up;

And whereas the Commission has furnished the Corporation with a report dated 1st November, 1919, as to the estimated cost of equipping and operating the railway;

And whereas the Corporation has offered to transfer to the Commission all the assets, undertakings and property of the Guelph Railway for the consideration hereinafter mentioned, and has requested the Commission to operate the same, and the Commission has agreed to acquire and operate the same as under The Hydro-Electric Railway Act;

And whereas the electors of the Corporation have assented to a by-law authorizing the Corporation to enter into this agreement with the Commission for the sale and operation of the railway, subject to the following terms and conditions:

And whereas the Corporation has issued debentures for three hundred thousand dollars (300,000.00) and deposited the same within* the Commission;

Now this agreement witnesseth:—

SALE.

1. The Corporation agrees to sell and the Commission agrees to purchase all the assets, undertakings and property of every kind and nature belonging to the Guelph Railway or to which the Guelph Railway is entitled in connection with its business, free from liability, viz.:—

(a) All freehold and leasehold lands, easements and interests in lands, save and except the lands in the Township of Guelph known as "Riverside Park"; the lands in the Township of Puslinch known as "Puslinch Lake Property"; and that certain property to the south-west side and rear of the power house on Waterloo Avenue heretofore used as a winter recreation park, which said three parcels of property shall remain the property of the City of Guelph absolutely;

(b) All plant, machinery, rolling stock, works, buildings, fixtures, equipment, apparatus, furniture, stock-in-trade, supplies, stores, goods, chattels and effects;

(c) All franchises, patents, licenses, agreements and rights, and all documents, including title deeds, contracts, books of account, plans, records, and specifications;

*Evidently a clerical error for "with."

(d) All the outstanding shares of the capital stock of the Guelph Railway fully paid up;

(e) All the property to which the Guelph Radial Railway is entitled in connection with its business, except cash, promissory notes, book accounts and other bills and accounts receivable, which may be retained by the Corporation.

2.—(a) The consideration shall be the sum of one hundred and fifty thousand dollars (\$150,000.00), payable, including interest at $4\frac{1}{2}$ per cent. per annum, in instalments of eleven thousand, seven hundred dollars (\$11,700.00) in each year for twenty (20) years in half-yearly payments, on 1st May and 1st November, the first of such half-yearly payments of five thousand, eight hundred and fifty dollars (\$5,850.00) to be made on first November, 1921;

(b) All current contracts, taxes, local improvements, rates, assessments, rents and insurance shall be adjusted as of the time of completion of this agreement, which shall be on the 1st of May, 1921, and the balance paid in cash by the Corporation to the Commission or by the Commission to the Corporation, as the case may be. If any estimate made on such adjustment shall, after completion, prove inaccurate, the excess or deficiency, when determined, shall be paid by the party liable;

(c) The Corporation agrees to pay to the Commission the value of all revenue tickets sold by the railway company prior to the said date for completion that are taken up for fare, or presented for redemption for a period of sixty (60) days after the said date for completion, forthwith upon the delivery of such tickets by the Commission to the Corporation. Provided that if this agreement shall not have received confirmation by the Legislature by 1st May, 1921, the date of completion shall be the date when such confirmation is obtained.

3. The Corporation covenants with the Commission:—

(a) That the assets, undertakings and property of the railway are free from all encumbrances, and that the Corporation will pay and settle all liabilities whether direct, indirect, contingent, accruing and accrued at the said date for completion of this agreement, and to indemnify the Commission from all claims in connection with the said assets, undertakings, and property, or in connection with injuries and damages arising prior to the said date;

(b) That until the said date for completion, the Guelph Railway will repair and keep in repair and good working order and condition, reasonable wear and tear only excepted, all assets and undertakings and property of the Guelph Railway and will, pending said date for completion, carry on the business of the Guelph Railway in the usual and ordinary manner;

(c) That the Guelph Railway will not, before the said date for completion, create any bonds, debentures or other securities, and that the Guelph Railway will not do, permit, or permit to be done, any act or thing whereby any of its rights or privileges may become forfeited or terminated or liable to forfeiture or termination, and that after execution of this agreement the Corporation will, upon request, furnish to the Commission any and all information in connection with the property and affairs of the Guelph Railway;

(d) That, upon the completion of the sale under this agreement, the Corporation will cause to be tendered the resignations of all officers of the Guelph Railway, or cause their employment to be terminated as of the said date of completion.

4. The Commission covenants and agrees with the Corporation as follows:—

(a) That notwithstanding any franchise heretofore granted to the Guelph Railway in respect of the streets in the City of Guelph, that the Commission will not at any

time hereafter construct or operate the railway upon any streets in the City of Guelph other than those upon which the Guelph Railway is now operated and constructed without the consent of the Corporation being first obtained therefor, to be expressed by by-law of the Council of the City of Guelph;

(b) That the Commission will at all times in the future maintain and operate within the City of Guelph a ten minute street-car service upon the streets upon which the said railway is now operated, or such other service as may be agreed to by the municipality, and will at all times maintain in connection with the said service modern, well-equipped cars and rolling stock suitable for the accommodation of the travelling public;

(c) That the Commission will not move any through freight trains or cars over the streets of the City of Guelph and will only move local freight coming to or going from the City of Guelph after the hour of nine o'clock p.m. and before the hour of seven o'clock a.m., except upon express permission being obtained from the Corporation for the convenience of the business public of Guelph;

(d) To utilize the routes and property of the railway for all purposes from which it is possible to obtain a profit, and to permit an interchange of traffic with other railways wherever possible and profitable;

(e) That the Commission will institute a Sunday car service over the Guelph Railway suitable to the needs and wishes of the community, upon request therefor by the Corporation after a by-law in favour of Sunday cars has been passed by the municipal electors of the City of Guelph, giving their assent to such proposal;

(f) That the Commission will construct and operate a line of railway from some point upon their proposed line between Guelph and Hespeler to Puslinch Lake at the same time as the proposed line between Guelph, Galt and Hamilton and Elmira, Galt and Hamilton is constructed, in order to give the City of Guelph connections by the said system to Puslinch Lake, and the Corporation hereby covenants with the Commission that the Corporation will grant to the Commission sufficient land for right-of-way and terminal facilities out of the property now owned by the Corporation or by the Guelph Railway at Puslinch Lake;

(g) That the Commission will at all times construct and maintain suitable pavements upon all streets in the City of Guelph upon which the railway is operated, between the car tracks and for an additional space of eighteen inches on the outside of each rail. Such pavements to be in every way and at all times suitable for the purpose of making satisfactory highways, and to be subject to and under the approval of the Corporation's engineer.

OPERATION.

5. Subject to the provisions of The Hydro-Electric Railway Act, 1914, and amendments thereto, the Commission agrees with the Corporation:—

(a) To equip and operate the Guelph Railway so acquired from the Corporation;

(b) To regulate and fix the fares and rates of toll to be collected by the railway for all classes of service;

(c) To combine the property and works of the railway and the power lines of the Commission where such combination is feasible and may prove economical to both the railway and the users of the power lines;

(d) To supply electrical power or energy for operation of the railway at rates consistent with those charged to municipal corporations;

(e) To apportion annually the capital costs and operating expenses of all works, apparatus and plant used by the railway in common with the Commission's transmission lines in a fair manner, having regard to the service furnished by the expenditure under consideration;

(f) To apply the revenue derived from operation of the railway and any other revenue derived from the undertaking to the payment of operating expenses (including electrical power), the cost of administration, and annual charges for interest and sinking fund on the money invested, and such other deductions as are herein provided for;

(g) To set aside from any revenue thereafter remaining an annual sum for the renewal of any works belonging in whole or in part to the undertaking;

(h) To pay over annually to the Corporation, if deemed advisable by the Commission in the interests of the undertaking, any surplus that may remain after providing for the items above mentioned.

6. In consideration of the premises and of the agreements herein set forth, the Corporation agrees with the Commission:—

(a) To bear the cost of acquiring, equipping, operating, maintaining, repairing, renewing, and insuring the railway and its property and works as established by the Commission;

(b) To issue debentures for three hundred thousand dollars (\$300,000), maturing in fifty years from the date of issue thereof, bearing interest at 5% (five per cent.) per annum, payable half-yearly at the Bank of Montreal, Toronto, Ontario. Such debentures shall be deposited with the Commission on the confirmation of this agreement, and may be held or disposed of from time to time by the Commission, as herein after provided, in such amounts, at such rates of discount or premium, and on such terms and conditions as the Commission in its sole discretion shall deem to be in the interests of the railway, the proceeds of such debentures being used solely for the purposes herein contained;

(c) To make no agreement or arrangement with, and to grant no bonus, license or other inducement to any other railway or transportation company without the written consent of the Commission;

(d) To keep, observe and perform the covenants, provisos and conditions set forth in this agreement intended to be kept and observed and performed by the Corporation, and to execute such further or other documents and to pass such by-laws as may be requested by the Commission for the purpose of fully effectuating the objects and intent of this agreement;

(e) Subject to paragraph 4a hereof, to furnish a free right of way for the railway and for the power lines of the Commission over any property of the Corporation upon being so requested by the Commission, and to execute such conveyance thereof or agreement with regard thereto as may be desired by the Commission.

7. The Commission is authorized to create or cause to be created an issue of bonds at a rate of interest not exceeding 6% per annum (six per cent.), payable half-yearly and maturing in not more than 50 years from the date of issue thereof, and to sell, pledge or otherwise dispose of the same on behalf of the Corporation. Such bonds to be charged upon and secured by the railway, and all the assets, rights and privileges, revenues, works, property and effects belonging thereto, or held or used in connection with the railway acquired, equipped, operated and maintained by the Commission under this agreement, and to be for one hundred and fifty thousand dollars (\$150,000), provided

that the Commission may, upon obtaining the consent of the Corporation, increase the said bond issue by any amount necessary to cover the capital cost of extensions, improvements, additional works or equipment of any kind for use on the railway. In order to meet and pay such bonds and interest as the same becomes due and payable, the Commission shall, in each year after the expiration of ten years from the date of the issue of the bonds, out of the revenue of the railway, after payment of operating expenses (including electrical power) and the cost of administration, set aside a sufficient sum to provide a sinking fund for the purpose of redeeming the same at maturity. Debentures issued by the corporations as above provided shall, to the extent of the par value of any bonds outstanding from time to time, be held or disposed of by the Commission as collateral security for payment of the said bonds and for payment of any deficit as hereinafter provided, it being understood and agreed that in the event of any increase of the said bond issue the Corporation shall, upon the request of the Commission, deposit with the Commission additional debentures as above described, to be held or disposed of by the Commission in the same manner.

8. In the event of the revenue derived from the operations of the undertaking being insufficient in any year to meet the operating expenses (including electrical power), the cost of administration and the annual charges for interest and sinking fund on the bonds, and for the renewal of any works belonging in whole or in part to the railway, such deficit shall be paid to the Commission by the Corporation upon demand. In the event of the failure of the Corporation to pay such deficit, it shall be lawful for the Commission, in the manner above provided, to sell, pledge or otherwise dispose of so much of the debentures held by the Commission as shall be necessary to supply such deficit, and the Corporation shall forthwith issue and deposit with the Commission debentures to the same amount, so that the debentures held by the Commission may be equal to the amount originally deposited. Any arrears by any corporation shall bear interest at the legal rate.

9. In case the Commission shall at any time or times be prevented from operating the railway or any part thereof, by strike, lock-out, riot, fire, invasion, explosion, act of God, or the King's enemies, or any other cause reasonably beyond its control, then the Commission shall not be bound to operate the railway or such part thereof during such time; but the Corporation shall not be relieved from any liability or payment under this agreement, and as soon as the cause of such interruption is removed the Commission shall, without any delay, continue full operation of the railway, and the Corporation shall be prompt and diligent in doing everything in its power to remove and overcome any such cause or causes of interruption.

10. It shall be lawful for, and the Corporation hereby authorizes the Commission to unite the business of the railway with that of any other railway system operated in whole or in part by the Commission, and to exchange equipment and operators from one system to another, proper provision being made so that each system shall pay its proportionate share of the cost of any equipment used in common.

11. If at any time any other municipal corporation applies to the Commission for an extension of the railway into its municipality, the Commission shall notify the applicant and the Corporation, in writing, of a time and place to hear all representations that may be made as to the terms and conditions relating to any such proposed extension. If, on the recommendation of the Commission, such extension shall be authorized, without discriminating in favour of the applicant, as to the cost incurred or to be incurred for or by reason of any such extension, the Commission may extend the railway upon such terms and conditions as may appear equitable to the Commission.

No such application for an extension of the railway into any municipality, the corporation of which is not a party to this agreement, shall be granted if it is estimated by the Commission that the cost of service of the railway to the Corporation

will be thereby increased or the revenue and accommodation be injuriously affected without the written consent of the Corporation.

12. The consent of any corporation required under this agreement shall mean the consent of the council of such corporation, such consent being in the form of a municipal by-law duly passed by the council of the corporation.

13. The railway and all the works, property and effects held and used in connection therewith constructed, acquired, operated and maintained by the Commission under this agreement and said Act shall be vested in the Commission in behalf of the Corporation, but the Commission shall be entitled to a lien upon the same for all money expended by the Commission under this agreement and not repaid.

14. This agreement shall continue and extend for a period of fifty years from the date hereof, and at the expiration thereof be subject to renewal, with the consent of the Corporation from time to time for like periods of fifty years, subject to adjustment and reapportionment as herein provided for the purpose of this agreement as though the terms hereof had not expired. At the expiration of this agreement the Commission shall determine and adjust the rights of the Corporation, having regard to the amounts paid or assumed under the terms of this agreement, and such other considerations as may appear equitable to the Commission and are approved by the Lieutenant-Governor in Council.

15. This agreement shall not come into effect until it has been sanctioned by the Lieutenant-Governor in Council and by the Legislature of the Province of Ontario.

In witness whereof the Corporation, the Commission and the Guelph Railway have respectively affixed their corporate seals and the hands of their proper officers.

THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO.

(Seal of
Commission.)

(Sgd.) A. BECK,
Chairman.
(Sgd.) W. W. POPE,
Secretary.

THE MUNICIPAL CORPORATION OF THE CITY OF GUELPH.

(Seal, City
of Guelph.)

(Sgd.) CHAS. BURGESS,
Mayor.
(Sgd.) H. J. B. LEADLAY,
Clerk.

THE GUELPH RADIAL RAILWAY COMPANY.

(Seal The Guelph
Radial Railway
Company.
1895, 1903 Acts.)

(Sgd.) H. J. McELROY,
President.
(Sgd.) H. J. B. LEADLAY,
Secretary.

Chapter 23, 1921.

An Act respecting the purchase by the City of Toronto of the Assets of Certain Companies.

HIS MAJESTY, by and with the advice and consent of the Legislative Assembly of the Province of Ontario, enacts as follows:—

1. This Act may be cited as *The Toronto Power and Railway Purchase Act, 1921* Short title.

2. The Corporation of the City of Toronto is authorized to purchase the distribution systems of the Toronto and Niagara Power Company, and the Toronto Electric Light Company, Limited, or either of them, or such portions thereof as may be agreed upon between the said corporation and the vendors. City authorized to purchase distribution plants.

3. The Corporation of the City of Toronto is further authorized to purchase all tracks, poles, lines, and works of the Metropolitan division of the Toronto and York Radial Railway situate upon the highways lying within the limits of the said city. And Metropolitan Ry. in city limits.

4. The agreement or agreements for the purchase of the properties mentioned in sections 2 and 3 shall be subject to approval by by-law of the municipal council of the Corporation of the City of Toronto, and, when so approved, shall be signed by the mayor of the said city and by the treasurer thereof, and the said treasurer shall affix the seal of the said corporation thereto. Approval and execution of agreements.

5. The Corporation of the City of Toronto is authorized to issue debentures of the said city to a total amount not exceeding \$7,811,295, dated the 1st day of December, 1920, and payable in twenty years from the said date with interest thereon half-yearly at the rate of six per cent. per annum, and to deliver the same in payment of the price of the properties purchased under sections 2 and 3. Debentures for \$7,811,295 authorized.

6. It shall not be necessary to submit any by-law for the issue of debentures under this Act to the electors of the said city qualified to vote on money by-laws or to observe any of the formalities in relation thereto prescribed by *The Municipal Act*, and the said debentures shall not be included as part of the debt of the Corporation of the City of Toronto in estimating the limits of its borrowing powers. Assent of electors not required.

Distribution
plants to be
controlled
and operated
by electric
commission
of city.

7.—(1) The property acquired by the Corporation of the City of Toronto under section 2 shall be under the control and management of and shall be operated by the Toronto Electric Commission, herein called the "Commission," as part of the system of the said city for the distribution of electrical power or energy for light, heat or power purposes, and the commission, with respect to the said property, shall possess the like powers and shall perform the like duties as in the case of the works now controlled and operated by the commission in the City of Toronto.

Railway to
be part of
city system.

(2) The property acquired under section 3 shall be controlled and operated by the said corporation as part of its municipal street railway system in the same manner as the municipal street railways now owned and operated by the said corporation.

Transfer
of certain
assets and
rights to
Power
Commission
authorized.

8. The Corporation of the City of Toronto is authorized to transfer to the Hydro-Electric Power Commission of Ontario certain railway assets it now owns within the city on the Kingston Road and on the Lake Shore Road; and to enter into an agreement with the said commission providing for the construction or acquisition and operation of a railway by the said commission or the said corporation, upon the roads as above described, and the giving by either party to the other of running rights or in the case of the Lake Shore Road a right-of-way.

Commence-
ment of Act.

9. This Act shall come into force on the day upon which it receives the Royal Assent.

Chapter 24, 1921.

An Act to authorize the Purchase and Operation of Certain Radial Railways by the Hydro-Electric Power Commission of Ontario on behalf of the City of Toronto.

HIS MAJESTY, by and with the advice and consent of the Legislative Assembly of the Province of Ontario, enacts as follows:—

Short title.

1. This Act may be cited as *The Toronto Radial Railway Act, 1921*.

Interpreta-
tion.

2. In this Act:—

"Commis-
sion."

(a) "Commission" shall mean The Hydro-Electric Power Commission of Ontario.

(b) "Corporation" shall mean the Municipal Corporation of the City of Toronto. "Corporation."

(c) "Railway" shall mean any one of the Divisions mentioned in section 4 (a). "Railway."

3. The Toronto Railway Company may sell to the Commission and the Commission may buy on terms to be agreed upon between them the shares, securities, and/or property and rights of The Toronto Power Company, Limited (formerly called the Toronto & Mimico Railway Company), the Toronto and York Radial Railway Company, the Schomberg and Aurora Railway Company, the Toronto and Scarboro' Electric Railway, Light and Power Company and the Metropolitan Railway Company. Powers of Toronto Railway Company to sell shares, etc.

4. Upon the completion of the said purchase the properties described and set out in schedules to the agreements in Schedule "A" to this Act as:— Vesting of purchased properties in Commission.

(a) The Metropolitan Division, including for the purposes hereof, the Schomberg and Aurora Railway;

(b) The Mimico Division;

(c) The Scarboro Division,

shall be vested in the Commission on behalf of the Corporation, free from encumbrances, charges and liabilities, subject only to the agreements to be entered into under the authority of section 5.

5. The Commission and the Corporation are authorized to enter into agreements as of 1st December, 1920, in the form set out in Schedule "A" to this Act or with such variations thereof as may be approved by the Lieutenant-Governor in Council, and to execute the same, and the said agreements shall be approved of by by-law of the Municipal Council of the Corporation, and when so approved, shall be signed by the Mayor of the Corporation and by the Treasurer thereof, and the Treasurer shall affix the seal of the Corporation thereto, and when so executed the said agreements shall be legal, valid and binding upon the Corporation and the ratepayers thereof and upon the Commission, anything in any general or special Act of this Legislature or in any by-law passed under any such Act to the contrary notwithstanding. Powers of Commission and Corporation agreements to make

Vested
properties
to be
controlled,
equipped,
etc., by
Commission.

6. The properties acquired by and vested in the Commission on behalf of the Corporation under section 4 shall be controlled, equipped and operated by the Commission on behalf of the Corporation, and the Commission shall have and may exercise and perform the like powers, duties and obligations with respect to the said properties as in the case of a railway constructed or acquired, equipped and operated by the Commission under *The Hydro-Electric Railway Act, 1914*.

Agreements
with
municipal
corpora-
tions.

7.—(1) The Commission and the Corporations* may agree with any municipal corporation through which any of the said railways pass or in which a part of the said railways is situate, for the admission of such, municipal corporation as a party to the agreement for the acquisition and operation of the said railway or for the extension thereof in or through the territory of such municipal corporation upon such terms and conditions and subject to such contributions as if it were a party to the agreement mentioned in section 5 at the date hereof, but no such agreement shall be entered into until the same shall have been approved by the Lieutenant-Governor in Council and submitted to the municipal electors of the municipal corporation or corporations to be added as parties to the said agreement as provided by *The Hydro-Electric Railway Act, 1914*, with respect to an agreement for the construction or acquisition and operation of a railway by the Commission.

Agreements
to provide
for issue of
debentures.

(2) Every such agreement shall provide for the issue of debentures by any such municipal corporation either in substitution for, or in addition to the debentures deposited with the Commission by the Corporation under section 11, and upon the execution thereof the agreements mentioned in section 5 shall be modified accordingly and shall remain in full force and effect subject only to such modifications.

By-law un-
necessary.

(3) It shall not be necessary to submit any by-law for the issue of such debentures for the assent of the electors or observe any of the formalities provided by *the Municipal Act*.

Right of
Commission
and
Corporation
to maintain
railways.

8. The Commission and the Corporation shall, subject to the provisions of the agreements set out in Schedule "A" hereto, have the right for all time to maintain the railways described in the schedules to the said agreements in the locations and on the streets and highways set out in the said schedules.

Limit of
purchase
price.

9.—(1) The purchase price for the said railways so to be acquired by the Commission shall not exceed \$2,375,000, and the Commission is authorized to issue bonds dated the 1st day of December, 1920, bearing interest at the rate of six per cent. per annum, payable half-yearly and maturing twenty years from the said date.

*The word 'Corporations' is evidently an error; the Corporation of the City of Toronto being intended.

(2) The bonds issued shall be a charge upon the Metropolitan Division for \$1,875,000, on the Mimico Division for \$260,000, and on the Scarborough Division for \$240,000, and all the rights, assets, privileges, revenue, works, property and effects belonging thereto respectively, as set out in the schedules to the agreements in Schedule "A" to this Act, provided that with the approval of the Lieutenant-Governor in Council the Commission may dispose of any property not required for the purposes of any of the said railways and use or dispose of the whole or part of the proceeds thereof in expenditures on capital account or may invest the whole or part thereof in securities of the Province of Ontario for the retirement of the said bonds at maturity.

Bond issue apportionment of charge.

(3) The Commission, with the consent of the Corporation, may from time to time increase the said bond issue as deemed necessary to cover the capital cost of extensions or improvements or additional works or equipment of any kind required for the railway.

Increase of bond issue.

(4) For the purpose of providing for the payment of such bonds and the interest thereon, the Commission shall, in each year after the expiration of ten years from the said date, out of the revenue of the railways, after payment of working or operating expense, including the supply of electrical power or energy and the cost of administration, and annual charges for interest set aside annually such sums as may be necessary to provide a sinking fund, on basis of not more than 40 years for the payment of all the said bonds, which shall be held for and applied toward the payment of such bonds, or any renewals thereof, at maturity and the Commission shall have power from time to time to issue bonds, under the provisions of this Act, for the purpose of providing for such additional moneys as may be necessary, with the accumulated sinking fund on hand, to repay the bonds previously issued, when the same respectively mature. Provided that the sum so set aside for sinking fund shall be sufficient to provide for payment of all the bonds issued on account of the said railway within fifty years from the said 1st day of December, 1920.

of bonds. retirement fund for sinking of revenue Application

(5) Sections 7 and 8 of *The Hydro-Electric Railway Act, 1914*, and amendments thereto, and section 5 of *The Hydro-Electric Railway Act, 1920*, shall apply to the bonds to be issued by the Commission under this section.

Application of 1914, c. 31, ss. 7-8, 1920, c. 57, s. 5.

10. Subject to the provisions of this Act and to the terms of the said agreements, the provisions of *The Hydro-Electric Railway Act, 1914*, and amendments thereto shall, *mutatis mutandis* apply to the acquisition, construction, equipment and operation of the said railways, as in the case of a railway constructed or acquired by the

Application of 1914, c. 31, as to acquisition, construction etc., of railways.

Hydro-Electric Power Commission of Ontario under the provisions of *The Hydro-Electric Railway Act, 1914.*

Debentures,
how pay-
able.

11.—(1) The Corporation is authorized to issue debentures to the amount of \$2,375,000, payable in fifty years from the 1st day of December, 1920, and bearing interest at the rate of six per cent. per annum, payable half-yearly as follows:—

- \$1,875,000 for the Metropolitan Division;
- \$260,000 for the Scarboro' Division; and
- \$240,000 for the Mimico Division.

Deposit of
debentures
with the
Commission.

(2) Upon the execution of the said agreements the Corporation shall issue and deposit the said debentures with the Commission; and is further authorized to and shall, from time to time thereafter, upon the requisition in writing of the Commission, issue and deposit with the Commission further similar debentures for the same amount as any increase of the bond issue of the Commission to cover the capital cost of extensions, improvements or additional works or equipment of the said railway, as provided in subsection 3 of section 9.

Where
revenue
insufficient.

(3) In the event of the revenue derived from the operation of the railway being insufficient in any year to meet the operating or working expenses, including electric power or energy and the cost of administration and the annual charges for the interest and sinking fund on the bonds and of the renewal of any works belonging in whole or in part to the railway, such deficits shall be paid on demand of the Commission by the Corporation. Any arrears of the Corporation shall bear interest at the rate of six per cent. per annum. If the Corporation shall make default in payment of any such deficit the Commission shall thereupon sell or otherwise dispose of so much of the debentures of the Corporation as shall be necessary to supply such deficiency at such rates of discount or premium and on such terms and conditions as the Commission in its sole discretion shall deem to be in the interests of the railway, the proceeds of such debentures being used solely for the purposes herein contained.

Deposit of
debentures
to make up
deficiency.

(4) If the remaining debentures are insufficient in the opinion of the Commission to meet all payments required to be made by the Corporation under this Act or the said agreements, the Corporation is hereby authorized to and shall issue and deposit forthwith with the Commission similar debentures to an amount sufficient in the opinion of the Commission to make up the deficiency.

Debentures
to be
collateral
security
for bonds.

(5) All debentures issued and deposited with the Commission under this section shall be held by the Commission as collateral security for the bonds issued by the Commission under section 9, and for any payments required to be made by the Corporation under this Act or the said agreements.

(6) It shall not be necessary to obtain the assent of the electors to any by-law for the issue of the said debentures.

Assent of
electors to
by-law not
necessary.

(7) The said debentures shall not be included as part of the debt of the Corporation in estimating the limits of its borrowing powers.

Debentures,
when not to
be included
in debt of
Corporation.

12. This Act shall come into force on the day upon which it receives the Royal Assent.

Commence-
ment of Act.

SCHEDULE "A."

Draft Agreement relating to the *Metropolitan* Division; similar Agreements to be made as to the *Scarboro* Division and as to the *Mimico* Division.

This Indenture made the first day of December, in the year of our Lord, one thousand nine hundred and twenty,

Between

The Hydro-Electric Power Commission of Ontario, hereinafter called the "Commission," of the first part;

and

The Corporation of the City of Toronto, hereinafter called the "Corporation," of the second part.

Whereas the Commission has at the request of the Corporation acquired for and on behalf of the Corporation certain properties of the Metropolitan Division of the Toronto and York Radial Railway Company, including for the purposes hereof the Schomberg and Aurora Railway Company, all as described and set out in Schedule "A" hereto, and hereinafter called the "Railway" to be controlled, equipped and operated under the terms of *The Hydro-Electric Railway Act, 1914*, and of a special Act authorizing this agreement;

And whereas the Corporation has requested the Commission to control, equip and operate and the Commission has agreed with the Corporation on behalf of the Corporation to control, equip and operate the railway upon the terms and conditions and in the manner herein set forth; but upon the express condition that the Commission shall not in any way be liable for any financial or other obligation or loss whatsoever by virtue of this agreement or arising out of the performance of the terms thereof;

And whereas the electors of the Corporation have voted in favor of authorizing the Corporation to enter into the necessary agreements with the Commission for acquiring the railway;

And whereas the Corporation has issued debentures for the amounts set forth in clause 2 b hereof, and has deposited the said debentures with the Commission;

Now therefore, this indenture witnesseth:

1. In consideration of the premises and of the agreements of the Corporation herein contained, and subject to the provisions of the said Acts and amendments thereto, the Commission agrees with the Corporation;

(a) To equip, and operate the railways on behalf of the Corporation, subject to clauses 11 and 12 hereof;

(b) To issue bonds, as provided in clause 3 hereof to cover the cost of acquiring the railway;

(c) To furnish as far as possible first-class modern and standard equipment for use on the railways, to operate this equipment so as to give the best service and accommodation possible, having regard to the district served, the type of construction and equipment adopted and all other equitable conditions, and to exercise all due skill and diligence so as to secure the most effective operation and service of the railways consistent with good management;

(d) To regulate and fix the fares and rates of toll to be collected by the railway for all classes of service;

(e) To utilize the routes and property of the railways for all purposes from which it is possible to obtain a profit;

(f) To combine the property and works of the railway and the power lines of the Commission where such combination is feasible and may prove economical to both the railway and users of the power lines;

(g) To permit and obtain interchange of traffic with other railways wherever possible and profitable; provided always, and it is hereby agreed, that the Commission will not operate any of the trams, cars or other rolling stock of said railway on any highway within the limits of the City of Toronto without first obtaining the consent of the Corporation;

(h) To supply electrical power or energy for operation of the railway at rates consistent with those charged to municipal corporations;

(i) To apportion annually the capital costs and operating expenses of all works, apparatus and plant used by the railway in common with the Commission's transmission lines in a fair manner, having regard to the service furnished by the expenditure under consideration;

(j) To apply the revenue derived from operation of the railway and any other revenue derived from the undertaking to the payment of operating or working expenses including the supply of electrical power or energy, and the cost of administration and annual charges for interest and sinking fund on the money invested, and such other deductions as are herein provided for;

(k) To set aside from any revenue thereafter remaining an annual sum for the renewal of any works belonging in whole or in part to the undertaking;

(l) To take active steps for the purpose of taking over, equipping and operating the railway at the earliest possible date after the execution of this agreement by the Corporation and the deposit of the debentures as called for under clause 2b hereof;

(m) To pay over annually to the Corporation, if deemed advisable by the Commission in the interests of the undertaking, any surplus that may remain after providing for the items above mentioned.

2. In consideration of the premises and of the agreements herein set forth, the Corporation agrees with the Commission:

(a) To bear as hereinafter provided the cost of acquiring, equipping, operating, maintaining, repairing, renewing and insuring the railway and its property and works as established by the Commission;

(b) To issue debentures to the amount of \$1,875,000, maturing in fifty years from 1st December, 1920, and bearing interest at the rate of six per centum per annum,

payable half-yearly at the office of the City Treasurer in the City of Toronto, Ontario, which shall be deposited with the Commission previous to the issuing of the bonds hereinafter mentioned. The said debentures are similar to debentures to be issued by the Corporation under the provisions of two other agreements between the parties hereto of even date herewith respecting the Scarboro Division and the Mimico Division of the Toronto and York Radial Railway, and the total amount of debentures to be issued by the Corporation under the three agreements, for the acquisition of the three railways is \$2,375,000;

(c) To make no agreement or arrangement with, and to grant no bonus, license or other inducement to any other railway or transportation company without the written consent of the Commission;

(d) To keep, observe and perform the covenants, provisos, and conditions set forth in this agreement intended to be kept and observed and performed by the Corporation, and to execute such further or other documents and to pass such by-laws as may be requested by the Commission for the purpose of fully effectuating the objects and intent of this agreement.

3. It shall be lawful and the Commission is hereby authorized to create or cause to be created an issue of bonds to be charged upon and secured by the railway and its undertaking, and all the assets, rights, privileges, revenue, works, property and effects belonging thereto and to be for the amount of \$1,875,000, provided that the Commission may, upon obtaining the consent as herein defined of the Corporation, increase the said bond issue by any amount necessary to cover the capital cost of extensions, improvements and additional works or equipment of any kind for use on the railway, and provided that with the approval of the Lieutenant Governor in Council the Commission may dispose of any property not required for the purpose of the railway and use or dispose of the whole or part of the proceeds thereof in expenditure on capital account or invest the whole or part thereof in securities of the Province of Ontario for the retirement of the said bonds at maturity.

4. In order to meet and pay such bonds and interest as the same becomes due and payable the Commission shall in each year after the expiration of ten years from the date of the issue of the bonds out of the revenue of the railway after payment of operating or working expenses including the supply of electrical power or energy and the cost of administration and annual charge for interest set aside annually such sums as may be necessary to provide a sinking fund, on basis of not more than forty years for the payment of all the said bonds which shall be held for and applied toward the payment of such bonds or any renewals thereof at maturity, and the Commission shall have power from time to time to issue bonds under the provisions of the said special Act for the purpose of providing for such additional money as may be necessary with the accumulated sinking fund on hand to repay the bonds so issued when the same respectively mature, provided that the sum so set aside for sinking fund shall be sufficient to provide for payment of all the bonds issued on account of the said railway within fifty years from the said first day of December, 1920.

5. (1) The Corporation is authorized to issue debentures to the amount of \$1,875,000, payable in fifty years from 1st day of December, 1920, and bearing interest at the rate of six per cent. per annum, payable half-yearly.

(2) Upon the execution of the said agreements the Corporation shall issue and deposit the said debentures with the Commission; and is further authorized to and shall from time to time thereafter upon the requisition in writing of the Commission issue and deposit with the Commission further similar debentures for the same amount or any increase as provided in subsection 3 of section 9, of the bond issue of the Commission to cover the capital cost of extensions or improvements of the railway.

(3) In the event of the revenue derived from the operation of the railway being insufficient in any year to meet the operating or working expense, including the electric power or energy and the cost of administration and the annual charges for interest and sinking funds on the bonds and for the renewal of any works belonging in whole or in part to the railway, such deficits shall be paid upon demand of the Commission by the Corporation. Any arrears of the Corporation shall bear interest at the rate of six per cent. per annum. If the Corporation shall make default in payment of such deficits the Commission shall thereupon sell or otherwise dispose of so much of the debentures of the Corporation as shall be necessary to supply such deficiency at such rates of discount or premium and such terms and conditions as the Commission in its sole discretion shall deem to be in the interests of the railway, the proceeds of such debentures being used solely for the purposes herein contained.

(4) If the remaining debentures are insufficient in the opinion of the Commission to meet all payments required to be made by the Corporation under this Act or the said agreements, the Corporation is hereby authorized to and shall issue and deposit forthwith with the Commission similar debentures to an amount sufficient in the opinion of the Commission to make up the deficiency.

(5) All debentures issued and deposited with the Commission under this clause shall be held by the Commission as collateral security for the bonds issued by the Commission under clause 3, and for any payment required to be made by the Corporation under this agreement or the said Act.

6. In case the Commission shall at any time or times be prevented from operating the railway or any part thereof by strike, lockout, riot, fire, invasion, explosion, act of God, or the King's enemies, or any other cause reasonably beyond its control, then the Commission shall not be bound to operate the railway or such part thereof during such time; but the Corporation shall not be relieved from any liability or payment under this agreement, and as soon as the cause of such interruption is removed the Commission shall, without any delay, continue full operation of the railway, and the Corporation shall be prompt and diligent in doing everything in its power to remove and overcome any such cause or causes of interruption.

7. It shall be lawful for, and the Corporation hereby authorizes the Commission to unite the business of the railway with that of any other railway system operated in whole or in part by the Commission, and to exchange equipment and operators from one system to the other, proper provisions being made so that each system shall pay its proportionate share of the cost of any equipment used in common.

8. If at any time any other municipal corporation applies to the Commission for an extension of the railway into its municipality the Commission shall notify the applicant and the Corporation in writing of a time and place to hear all representations that may be made as to the terms and conditions relating to such proposed extension. If, on the recommendation of the Commission, such extension shall be authorized, without discrimination of the applicant, as to the cost incurred or to be incurred for or by reason of any extension, the Commission may extend the railway upon such terms and conditions as may appear equitable to the Commission.

No such application for an extension of the railway into any municipality shall be granted if it is estimated by the Commission that the cost of service of the railway to the Corporation will thereby be increased or the revenue and accommodation be injuriously affected without the consent of the Corporation.

9. The consent of the Corporation required under this agreement shall mean the consent of the council of such Corporation, such consent being in the form of a municipal by-law duly passed by the Council of the Corporation.

10. The railway and all the works, property and effects held and used in connection therewith, constructed, acquired, operated and maintained by the Commission under this agreement and the said Act shall be vested in the Commission on behalf of the Corporation; but the Commission shall be entitled to a lien upon the same for all money expended by the Commission under this agreement and not repaid.

11. If at any time one or more of the municipalities through which the railway now passes or in which a part of the railway is situate applies to the Commission for admission as a party to this agreement for the acquisition and operation of the railway or for the extension thereof in or through the territory of such municipality upon such terms or conditions and subject to such contributions as if it had been a party to this agreement at the date thereof for the acquisition and operation of the said railway, the Commission shall take such steps and permit such votes to be taken as are necessary under the provisions of the said Act to authorize such municipality or municipalities to enter into an agreement under the Act to acquire such an interest.

The Corporation shall thereafter upon the request of the Commission enter into a new agreement with the Commission and the applying municipality or municipalities in the form, so far as applicable, of this agreement and containing paragraph 1 (*m*) and (*o*); paragraph 2 (*e*) and paragraphs 5, 10, 12 and 13 of the standard form of agreement set out in *The Hydro-Electric Railway Act, 1914*, and such other provisions as may be approved by the Lieutenant Governor in Council, and this agreement shall be deemed to be modified accordingly, and shall remain in full force and effect, subject only to such modifications.

12. This agreement shall continue and extend for a period of fifty years from the date thereof, and at the expiration thereof be subject to renewal, with the consent of the Corporation from time to time for like periods of fifty years. At the expiration of this agreement the Commission shall determine and adjust the rights of the Corporation, having regard to the amounts paid or assumed by the Corporation under the terms of this agreement, and such other consideration as may appear equitable to the Commission and are approved by the Lieutenant Governor in Council.

13. This agreement shall not come into effect until it has been authorized by an Act of the Legislature of Ontario.

In witness whereof the Commission and the Corporation have respectively affixed their corporate seals under the hands of their proper officers.

SCHEDULE "A" (a).

METROPOLITAN DIVISION.

The Metropolitan Division, for the purposes of this agreement, shall consist of all the right-of-way, other lands and real estate, roadbed, bridges, trestles, culverts, fences, signs, track, track tools, poles and fixtures, distribution system, shops, carhouses, offices, stations, miscellaneous buildings, ballast pits, park and resort property, passenger cars, freight cars, service cars, locomotives, shop equipment, furniture, trucks, automobiles, horses, vehicles, stores, substations, substation equipment owned on the first day of December, 1920, (1) by the Toronto and York Radial Railway Company and operated on that date as the Metropolitan Division thereof save and except all tracks, poles, lines and works situate upon the highways lying within the limits of the City of Toronto, and rolling stock known as cars Nos. 43 to 50 inclusive, and (2) by the Schomberg and Aurora Railway Company; the whole constituting a single track electric radial railway with sidings, spurs and all necessary appurtenances extending from the northerly limits

of the City of Toronto on Yonge Street to the Village of Sutton, Ontario, a distance of 48.66 miles, with a branch from Schomberg and Aurora junction to Schomberg, a distance of 14.41 miles; and including certain real estate, car barns, shops, machinery, tools and equipment within the City of Toronto, certain parcels of real estate outside of the said city, all as set out more particularly in the following schedule:

METROPOLITAN DIVISION OF TORONTO AND YORK
RADIAL RAILWAY.

REAL ESTATE IN NORTH TORONTO.

Lot 6 North side Birch Avenue, Toronto.....	50 ft. x 138 ft.
Part Lot 5 North side Birch Avenue, Toronto.....	25 ft. x 138 ft.
" 5 North side Birch Avenue, Toronto.....	25 ft. x 138 ft.
" 4 North side Birch Avenue, Toronto.....	16 ft. 8 in. x 138 ft.
" 4 North side Birch Avenue, Toronto.....	16 ft. 8 in. x 138 ft.
" 4 North side Birch Avenue, Toronto.....	16 ft. 8 in. x 25 ft.
" 1 North side Birch Avenue, Toronto.....	60 ft. x 70 ft.
" 28 Lane west side Yonge St., Toronto.....	52 ft. 6 in. x 100 ft.
	60 ft. x 68 ft.
	10 ft. x 138 ft.
" 7 and 8 South side Alcorn Avenue, Toronto.....	28 ft. 5 in. x 80 ft.
" 6 and 7 South side Alcorn Avenue, Toronto.....	20 ft. 6 in. x 80 ft.
" 6 South side Alcorn Avenue, Toronto.....	20 ft. 7 in. x 80 ft.
" 5 and 6 Lane South side Alcorn Avenue, Toronto.....	10 ft. x 80 ft.
" 5 South side Alcorn Avenue, Toronto.....	14 ft. 8 in. x 78 ft. 9 in.
" 5 South side Alcorn Avenue, Toronto.....	15 ft. 4 in. x 78 ft. 9 in.
" 4 South side Alcorn Avenue, Toronto.....	26 ft. 11 in. x 78 ft. 9 in.
" 4 South side Alcorn Avenue, Toronto.....	18 ft. x 78 ft. 9 in.
" 2 and 3 South side Alcorn Avenue, Toronto.....	50 ft. x 52 ft. 6 in.
" 67 and Lots 68 and 69 North side of Alcorn Avenue, Toronto	75 ft. x 78 ft. 9 in.
" 70 North side of Alcorn Avenue, Toronto.....	31 ft. x 78 ft. 9 in.
Lot C and Part Lot B, North side of Alcorn Avenue, Toronto....	45 ft. x 78 ft. 9 in.
Part Lot 1 North side of Alcorn Avenue, Toronto.....	49 ft. 10 in. x 60 ft.
" 2 and 3 South side Walker Avenue, Toronto.....	23 ft. 10 in. x 87 ft. 4 in.
" 2 and 3 South side Walker Avenue, Toronto.....	36 ft. x 87 ft. 4 in.
Lot 69 and Part Lots 70 and F, North side Walker Avenue, Toronto	58 ft. x 20 ft. 9 in.
Lot C, South side Woodlawn Avenue, Toronto.....	19 ft. 5 in. x 150 ft.
" B, South side Woodlawn Avenue, Toronto.....	19 ft. 6 in. x 150 ft.
" A, South side Woodlawn Avenue, Toronto.....	20 ft. 4 in. x 150 ft.
Part Lot 22 North side Woodlawn Avenue, Toronto.....	28 ft. x 178 ft. 7 in.
" 22 North side Woodlawn Avenue, Toronto.....	39 ft. 3 in. x 178 ft. 7 in.
" 20 and Lot 21, West side Yonge Street, Toronto.....	40 ft. x 100 ft.
Lots 25, 26, 27, 28 and 29, West side Yonge Street, Toronto.....	167 ft. 10 in. x 131 ft.
Part Lot 24 and Lane, South side Farnham Avenue, Toronto....	23 ft. x 167 ft.

BUILDINGS IN NORTH TORONTO.

18 Birch Avenue, semi-detached dwelling, two-storey red brick, 17 x 24 ft., with annex
26 x 13 ft.

16 Birch Avenue, ditto.

- 1208 Yonge Street, semi-detached store, two-storey brick, 14 x 60 ft.
 1210 Yonge Street, semi-detached store, two-storey brick, 14 x 60 ft.; furniture shop.
 1212 Yonge Street, detached store, two-storey rough-cast and brick veneer, 20 ft. 6 in. x 38 ft.
 17 Walker Avenue, detached dwelling, two-storey brick, 20 x 22 ft.; occupied.
 10 Walker Avenue, detached dwelling, two-storey brick, 38 x 48 ft.
 1306 Yonge Street, detached dwelling, two-storey red brick, 27 x 31 ft. 6 in.; occupied.
 1312 Yonge Street, detached dwelling, two-storey white brick, 25 ft. 6 in. x 43 ft. 5 in., used by Toronto & York Radial as offices.
 11 Farnham Avenue, detached dwelling, two-storey red brick, 23 ft. 6 in. x 30 ft. 6 in.; with additions.

ROADWAY.

Extending from North Toronto City Limits on Yonge Street to a point distant approximately 21.15 miles, near Mulock's Corners, including bridges, trestles and culverts, track-work with all turnouts and sidings, poles and fixtures, distribution system with feeders and telephone system, and signs.

Roadway on private right-of-way extending from Mulock's Corners to Sutton, a distance of 27.51 miles, including bridges, trestles and culverts, track-work with all turnouts and siding, poles and fixtures, distribution system with feeders and telephone system, fences, and signs.

ROADWAY MACHINERY AND TOOLS.

Roadway machinery and tool equipment in possession of maintenance of way forces on way and structures.

RIGHT OF WAY.

	Acres.
At Grand Trunk overhead crossings.....	6.74
Aurora	0.59
Yonge Street, to Newmarket, 7,489 ft.....	14.181
Through Newmarket, 3,600 ft.....	5.394
Newmarket to Jackson's Point	203.282
Jackson's Point to Sutton	11.201
Gravel Pit right-of-way to Oak Ridges.....	6.32
Interchange C.N.O. Ry., Richmond Hill	5.32

OTHER LANDS.

- Stable property, Toronto, Nos. 17 and 19 Birch Avenue.
 97 ft. x (88 ft. and 116 ft.).
 Car Barn property, Toronto.
 Yonge Street, No. 1430, 244 x 255 ft.
 St. Clair Avenue, 206 x 335 ft.
 Yonge Street, 150 x 189 ft.
 Substation property, York Mills, 150 x 147 ft.
 Station property, Richmond Hill, 58 x 137 ft.
 Bond Lake property, blocks B, C and D, 160.4 acres.
 Station property, Aurora, 80 x (198 and 275 ft.)
 Callaghan property, Roche's Point, 57.682 acres.
 Gravel Pit, Oak Ridges, 34.24 acres.

SHOPS, CARHOUSES, STATIONS, MISCELLANEOUS BUILDINGS AND STRUCTURES.

- 1430 Yonge Street, car barns 56 ft. x 202 ft. 6 in.; shops, 78 ft. x 101 ft. 6 in.; brick building, with concrete roof, built in 1906, with new addition now being finished.
 Mount Pleasant, paint and repair shop, 28 ft. 6 in. x 73 ft., frame building.

- Bond Lake Car Barns, 107 ft. 8 in. x 41 ft. 2 in., white brick building, roof steel truss with slate.
- Newmarket, car barns, irregular, 7,348 square feet, frame building, galvanized corrugated iron siding, roof flat, felt gravel.
- Thornhill Switch (Stop 42), shelter, 10 ft. 1 in. x 5 ft. 9 in.; frame building on sills, shingle French roof.
- Lot 40 (Stop 47), shelter 10 ft. 2 in. x 7 ft. 11 in.; frame building on sills, shingle French roof.
- Richmond Hill, Station and freight room, 33 ft. 2½ in. x 22 ft. 2½ in. frame building, shingle roof.
- Bond Lake, Dwelling 24 ft. 4 in. x 16 ft. 2 in., 1½ storey frame building with 1 storey Ell 20 ft. 6 in. x 12 ft. 4 in.
- “ Garage, 16 ft. 3 in. x 9 ft. 3 in. frame building, shingle roof.
- “ Lavatory, 8 ft. 0 in. x 6 ft. 0 in.; frame lean-to building, with shingle slope roof.
- “ Double dwelling, 40 ft. 4 in. x 21 ft. 10 in., 1½ storey frame building, concrete foundation, shingle roof, with 1 storey Ell 21 ft. 6 in. x 12 ft. 4 in.
- “ Barn, 23 ft. 3 in. x 19 ft. 7 in., frame building, shingle roof.
- “ Dwelling, 30 ft. 6 in. x 18 ft. 6 in., frame building, 1½ storey concrete foundation, shingle roof and Ell, 14 ft. 0 in. x 12 ft. 6 in.
- “ Cottage, 30 ft. 8 in. x 30 ft. 8 in., frame building, masonry foundation, shingle roof.
- “ Platform shelter, 59 ft. 1 in. x 13 ft. 2 in.; with frame cover 48 ft. 8½ in. x 26 ft. 6 in.
- “ Dwelling, 26 ft. 3 in. x 18 ft. 4 in., 1½ storey frame building, shingle roof, and Ell 16 ft. 4 in. x 18 ft. 5 in., with store 14 ft. 5 in. x 17 ft. 0 in.
- “ Barn, 30 ft. 2 in. x 24 ft. 3 in., frame building.
- “ Cook house, 31 ft. 2 in. x 22 ft. 3 in., frame building on posts.
- “ Pavilion, 80 ft. 7 in. x 42 ft. 8 in., frame cover, shingle roof.
- “ Pavilion annex, 37 ft. 2 in. x 28 ft. 6 in., frame cover, shingle roof.
- “ Boat house, 45 ft. 9 in. x 24 ft. 5 in., frame building, shingle flat roof.
- Aurora Station, freight room and dwelling, 64 ft. 4 in. x 24 ft. 0 in., 2 storey frame building, covered with sheet metal roof, paper and shingles.
- Newmarket—Dwelling, 25 ft. 4 in. x 19 ft. 5 in., 1½ storey frame building, concrete foundations, with 1 storey Ell, 12 ft. 5 in. x 10 ft. 1 in., and lean-to, 10 ft. 8 in. x 18 ft. 4 in., slope roof.
- “ Station, freight house and dwelling, 41 ft. 0 in. x 22 ft. 10 in., 2 storey frame building, shingle roof, with 1 storey freight room, 50 ft. 7 in. x 22 ft. 10 in., sheet metal siding, shingle and sheet tin roof.
- Sharon (Stop 74)—Shelter, old car.
- Doane Side Road (Stop 75)—Shelter and freight room, 20 ft. 6 in. x 12 ft. 4 in., frame building, shingle roof.
- Queensville—Station and freight room and dwelling, 36 ft. 2 in. x 19 ft. 0 in., 2 storey frame building.
- Colborne Crossing (Stop 77)—Station and freight room, 24 ft. 2 in. x 16 ft. 4 in., frame building, shingle roof.
- Boags (Stop 78)—Station and freight room, 24 ft. 2 in. x 16 ft. 4 in., frame building, shingle roof.
- Cowlesons (Stop 79)—Freight shed, 12 ft. 0 in. x 8 ft. 0 in., frame lean-to, slope roof.
- Ravenshoe (Stop 80)—Station and freight room, 24 ft. 2 in. x 16 ft. 4 in., frame building, shingle roof.
- Peters (Stop 81)—Freight shed, 16 ft. 4 in. x 12 ft. 4 in., frame building, shingle roof.
- Keswick (Stop 83)—Station and freight room, 34 ft. 4 in. x 15 ft. 2 in., frame building; tool house, 16 ft. 4 in. x 12 ft. 5 in., frame building.

- Orchard Beach (Stop 85)—Shelter, old car.
- Beyers (Stop 86)—Station and freight room, 24 ft. 2 in. x 16 ft. 4 in., frame building, shingle roof.
- Roche's Point (Stop 87)—Shelter, 15 ft. 8 in., frame building.
- Stop 87½—Platform.
- Base Line (Stop 88)—Shelter, 14 ft. x 7 ft., frame building.
- Hamilton's Crossing (Stop 89)—Shelter, 14 ft. x 10 ft., frame building.
- Brighton Beach (Stop 90)—Platform.
- Varney Road (Stop 91)—Platform.
- Eastbourne (Stop 92)—Shelter, 9 ft. 6 in. x 12 ft. 4 in., frame building, shingle roof.
- Indian Grove (Stop 92½)—Station and freight room, 32 ft. 4 in. x 16 ft. 4 in., frame building, on concrete posts, shingle roof.
- Willow Beach (Stop 95)—Shelter and freight room, 20 ft. x 16 ft., frame building, shingle roof.
- Willow Beach (Stop 95½)—Platform.
- Sunnyside (Stop 96)—Station and freight shed, 24 ft. 2 in. x 16 ft., frame building, shingle roof.
- Salvation Army (Stop 97½)—Shelter, 12 ft. x 16 ft., frame building.
- Glen Sibbald (Stop 98)—Platform.
- Jackson's Point (Stop 99)—Platform, shelter and freight room, frame cover to concrete platform, 32 ft. 6 in. x 51 ft., including freight room, 21 ft. 2 in. x 10 ft. 6 in., and office, 11 ft. x 12 ft. 2 in.
- Sutton (Stop 100)—Station, freight room and dwelling, 40 ft. 3 in. x 35 ft. 4 in., 2 storey frame building, sheet metal and brick first storey, and clapboard second storey, shingle roof.
- Birch Avenue—Stables, 24 ft. x 40 ft., frame building, with loft office, 12 ft. x 12 ft., frame building, one storey, freight shed, 21 ft. x 30 ft., brick building, with platform adjoining stables; waggon shed, 46 ft. x 30 ft., frame building.
- 1422 Yonge Street—Freight office, 12 ft. x 28 ft., one storey frame building.
- 1422 Yonge Street—Freight shed, 22 ft. x 30 ft., frame building; platform, 22 ft. x 32 ft.
- Mount Pleasant Store House—41 ft. 6 in. x 62 ft., 2 storey brick building.
- North Toronto Station and Ticket Office.

FURNITURE.

Furniture and fixtures in the following building:—

- Offices of the Toronto and York Radial Railway, located at 84 King Street East, Toronto.
- St. Clair Avenue, Car Barns.
- Ticket Office and Waiting-room, North Toronto.
- Richmond Hill Station and Freight House.
- Aurora Station and Freight House.
- Newmarket Station and Freight House.
- Queensville Station.
- Keswick Station.
- Jackson's Point Station.
- Mount Pleasant Store-room.
- Sutton Station.
- At various points along line fifteen loading plates.

MISCELLANEOUS EQUIPMENT.

- 9 Motor trucks.
- 6 heavy draft horses with harness.
- 6 waggons and
- 3 sleighs and stable equipment.

MATERIALS AND SUPPLIES.

All materials and supplies at the following places on December 1st, 1920:—
St. Clair Avenue Storehouse.

Mount Pleasant Storehouse, C. & N. O. connection, S. & A. Jctn. material yard.
Newmarket and various places along the line.

PASSENGER CARS.

19 Double truck, double end closed motor passenger cars.

FREIGHT AND EXPRESS CARS, SERVICE EQUIPMENT AND LOCOMOTIVES.

5 Single truck, miscellaneous cars.

41 Double truck miscellaneous cars and locomotives.

ELECTRIC EQUIPMENT FOR CARS.

General Electric No. 90 motors—50 h.p. 34.

General Electric No. 57 motors—50 h.p. 40.

General Electric No. 67 motors—40 h.p. 22.

General Electric No. 1000 motors—35 h.p. 6.

Westinghouse Electric No. 101 motors—40 h.p. 24.

Westinghouse Electric No. 112 motors—75 h.p. 4.

SHOP EQUIPMENT.

1 Pinion puller, complete (air.)

1 Acetylene welding and cutting torch (complete).

1 Small lathe.

1 Field winding machine.

1 3-ton portable crane.

1 Clark and Derhill (Galt) 16 inches.

Jointer head table 22½ inches by 7 inches by 3 ft.

1 Band-saw frame.

1 160-ton wheel press.

1 Heavy axle and wheel lathe with chuck 18 feet bed. (London Machine Tool.)

1 Bertram lathe 14 ft. bed with 21 inches swing.

1 Lathe with 8 ft. bed, with 20 inches swing.

1 Iron shaping machine (London Machine Co.) 25-inch stroke.

1 Emery stand.

1 14-inch power hack saw.

1 Bolt cutting machine.

1 Radial drill 36-inch swing (London Mach. Tool Co.).

1 20-inch drill press.

1 Trip hammer (motor driven).

1 30 ft. Monorail (6 ft. 1 in.) overhead crane.

1 Reavell Co., Ltd., quadruplex air compressor No. 2105.

1 Motor for above—65 B.H.P.—250 R.P.M. 110 amps., 500 volts.

1 Automatic switchboard for same (Bruce Peebles Co., Scotland).

1 Canadian Rand compressor, size O, No. 4787.

1 Motor for same, C. G. E. class—3-35-650, 35 h.p., form B., 60 amps., 500 volts, 650 r.p.m.

And all small tools, miscellaneous equipment, motor parts, control parts and other miscellaneous parts, air brake equipment, trucks, wheels on axles, miscellaneous car parts, store-room supplies and compressor parts in shops.

SUBSTATIONS AND SUBSTATION RAILWAY EQUIPMENT.

PROPERTY USED FOR RAILWAY PURPOSES.

York Mills Substation.

Brick building, 30 feet x 60 feet (approximate).

Railway Equipment.

2—500 k.w. induction motors, generator sets.
Switching equipment for above.

Bond Lake Substation.

Brick building, 20 feet x 28 feet and 100 feet x 100 feet.

Railway Equipment.

1—500 k.w. induction motor generator set.
1—Steam and motor-driven air compressor.
Switching equipment for above.
1—D. C. armature (spare) at C. W. Co., in repairs.

Newmarket Substation.

Brick building, 40 feet x 80 feet.

Railway Equipment.

2—500 k.w. induction motor generator sets.
Switching equipment for above.

Keswick Substation.

Frame building with sheet iron siding, 50 feet x 75 feet, and 10 feet x 10 feet.

Railway Equipment.

1—500 k.w. induction motor generator set.
1 Steam and motor-driven air compressor.
Switching equipment for above.

SCHOMBERG AND AURORA RAILWAY.

Right of Way.

Right of Way—121,829 acres.

Other Lands

S. & A. Junction property—7.10 acres.
Grand Trunk interchange—7.37 acres.
Sub-station, Kettleby—0.595 acres.
Schomberg station yard—1.929 acres.

Roadway.

Roadway, extending from S. & A. Junction to Schomberg, including grading track work, with sidings and turnouts, bridges, trestles and culverts, distribution system, telephone system, fences and signs.

Roadway, Machinery and Tools.

Roadway, machinery and tool equipment in possession of gang on maintenance of way and structures.

Stations and Miscellaneous Buildings.

Schomberg Junction—Station, 24 feet 6½ inches x 16 feet 7 inches, frame building, shingle roof.
Freight house, 25 feet 5 inches x 15 feet 6 inches, frame building. Tool house.

Eversley (Stop 160)—Shelter, 14 feet x 11 feet, frame building, shingle roof.
Stop 163—Shelter, 14 feet x 11 feet, frame building, shingle roof, tool house.
Kettlebey (Stop 166)—Shelter and freight room, 19 feet 8 inches x 13 feet 10 inches.
Schomberg—Station and dwelling 33 feet 2½ inches x 21 feet, one storey brick building with one storey frame, Ell 17 feet 3½ inches x 17 feet 5 inches.
Freight house, 28 feet 4 inches x 18 feet 3 inches, frame, tool house.

Furniture.

Furniture and fixtures in the following buildings:—

Schomberg Junction freight house and Schomberg station and freight house.

Substation and Substation Railway Equipment.

Schomberg and Aurora substation.

Brick building, 21 feet x 30 feet.

Railway equipment.

1—500 k.w. induction motor generator set.

Switching equipment for above.

Materials and Supplies.

All materials and supplies stored along the line.

SCHEDULE "A" (b).

Draft agreement relating to the Mimico Division;

This indenture made the first day of December, in the year of our Lord one thousand nine hundred and twenty,

Between:

The Hydro-Electric Power Commission of Ontario (hereinafter called the "Commission") of the first part,

and

The Corporation of the City of Toronto (hereinafter called the "Corporation"), of the second part.

Whereas the Commission has, at the request of the Corporation, acquired for and on behalf of the Corporation certain properties of the Mimico Division of the Toronto and York Radial Railway Company, all as described and set out in Schedule "A" (b) hereto, and hereinafter called the "Railway," to be controlled, equipped and operated under the terms of *The Hydro-Electric Railway Act, 1914*, and of a special Act authorizing this agreement;

And whereas the Corporation has requested the Commission to control, equip and operate, and the Commission has agreed with the Corporation on behalf of the Corporation to control, equip and operate the railway upon the terms and conditions and in the manner herein set forth; but upon the express condition that the Commission shall not in any way be liable for any financial or other obligation or loss whatsoever by virtue of this agreement or arising out of the performance of the terms thereof;

And whereas the electors of the Corporation have voted in favour of authorizing the Corporation to enter into the necessary agreements with the Commission for acquiring the railway;

And whereas the Corporation has issued debentures for the amounts set forth in clause 2 (b) hereof, and has deposited the said debentures with the Commission.

Now therefore, this indenture witnesseth:—

1. In consideration of the premises and of the agreements of the Corporation herein contained, and subject to the provisions of the said Acts and amendments thereto, the Commission agrees with the Corporation,

(a) To equip and operate the railways on behalf of the Corporation, subject to clauses 11 and 12 hereof;

(b) To issue bonds, as provided in clause 3 hereof to cover the cost of acquiring the railway;

(c) To furnish as far as possible first-class modern and standard equipment for use on the railways, to operate this equipment so as to give the best service and accommodation possible, having regard to the district served, the type of construction and equipment adopted and all other equitable conditions, and to exercise all due skill and diligence so as to secure the most effective operation and service of the railways consistent with good management;

(d) To regulate and fix the fares and rates of toll to be collected by the railway for all classes of service;

(e) To utilize the routes and property of the railways for all purposes from which it is possible to obtain a profit;

(f) To combine the property and works of the railway and the power lines of the Commission where such combination is feasible and may prove economical to both the railway and users of the power lines;

(g) To permit and obtain interchange of traffic with other railways wherever possible and profitable; provided always, and it is hereby agreed, that the Commission will not operate any of the trams, cars or other rolling stock of said railway on any highway within the limits of the City of Toronto without first obtaining the consent of the Corporation;

(h) To supply electrical power or energy for operation of the railway at rates consistent with those charged to municipal corporations;

(i) To apportion annually the capital costs and operating expenses of all works, apparatus and plant used by the railway in common with the Commission's transmission lines in a fair manner, having regard to the service furnished by the expenditure under consideration;

(j) To apply the revenue derived from operation of the railway and any other revenue derived from the undertaking to the payment of operating or working expenses, including the supply of electrical power or energy, and the cost of administration and annual charges for interest and sinking fund on the money invested, and such other deductions as are herein provided for;

(k) To set aside from any revenue thereafter remaining an annual sum for the renewal of any works belonging in whole or in part to the undertaking;

(l) To take active steps for the purpose of taking over, equipping and operating the railway at the earliest possible date after the execution of this agreement by the Corporation and the deposit of the debentures as called for under clause 2 b hereof;

(m) To pay over annually to the Corporation, if deemed advisable by the Commission in the interests of the undertaking, any surplus that may remain after providing for the items above mentioned.

2. In consideration of the premises and of the agreements herein set forth, the Corporation agrees with the Commission:—

(a) To bear as hereinafter provided the cost of acquiring, equipping, operating, maintaining, repairing, renewing and insuring the railway and its property and works as established by the Commission;

(b) To issue debentures to the amount of \$260,000.00, maturing in fifty years from 1st December, 1920, and bearing interest at a rate of six per centum per annum, payable half-yearly at the office of the City Treasurer in the City of Toronto, Ontario, which shall be deposited with the Commission previous to the issuing of the bonds hereinafter mentioned. The said debentures are similar to debentures to be issued by the Corporation under the provisions of two other agreements between the parties hereto of even date herewith respecting the Metropolitan Division and the Scarboro Division of the Toronto and York Radial Railway, and the total amount of debentures to be issued by the Corporation under the three agreements, for the acquisition of the three railways is \$2,375,000.00;

(c) To make no agreement or arrangement with, and to grant no bonus, license or other inducement to any other railway or transportation company without the written consent of the Commission;

(d) To keep, observe and perform the covenants, provisos and conditions set forth in this agreement intended to be kept and observed and performed by the Corporation, and to execute such further or other documents and to pass such by-laws as may be requested by the Commission for the purpose of fully effectuating the objects and intent of this agreement.

3. It shall be lawful and the Commission is hereby authorized to create or cause to be created an issue of bonds to be charged upon and secured by the railway and its undertaking, and all the assets, rights, privileges, revenue, works, property and effects belonging thereto and to be for the amount of \$260,000.00, provided that the Commission may, upon obtaining the consent herein defined of the Corporation, increase the said bond issue by any amount necessary to cover the capital cost of extensions, improvements and additional works or equipment of any kind for use on the railway, and provided that with the approval of the Lieutenant-Governor in Council the Commission may dispose of any property not required for the purpose of the railway and use or dispose of the whole or part of the proceeds thereof in expenditure on capital account or invest the whole or part thereof in security of the Province of Ontario for the retirement of the said bonds at maturity.

4. In order to meet and pay such bonds and interest as the same become due and payable the Commission shall in each year after the expiration of ten years from the date of the issue of the bonds out of the revenue of the railway after payment of operating or working expenses, including the supply of electrical power or energy and the cost of administration and annual charge for interest, set aside annually such sums as may be necessary to provide a sinking fund, on basis of not more than forty years for the payment of all the said bonds which shall be held for and applied toward the payment of such bonds or any renewals thereof, at maturity, and the Commission shall have power from time to time to issue bonds under the provisions of the said Special Act for the purpose of providing for such additional money as may be necessary with the accumulated sinking fund on hand to repay the bonds so issued when the same respectively mature, provided that the sum so set aside for sinking fund shall be sufficient to provide for payment of all the bonds issued on account of the said railway within fifty years from the said first day of December, 1920.

5. (1) The Corporation is authorized to issue debentures to the amount of \$260,000.00, payable in fifty years from 1st day of December, 1920, and bearing interest at the rate of six per cent. per annum, payable half-yearly.

(2) Upon the execution of the said agreements the Corporation shall issue and deposit the said debentures with the Commission; and is further authorized to, and shall from time to time thereafter upon the requisition in writing of the Commission, issue and deposit with the Commission further similar debentures for the same amount of any increase as provided in subsection 3 of section 9, of the bond issue of the Commission to cover the capital cost of extensions or improvements of the railway.

(3) In the event of the revenue derived from the operation of the railway being insufficient in any year to meet the operating or working expense, including the electric power or energy and the cost of administration and the annual charges for interest and sinking funds on the bonds and for the renewal of any works belonging in whole or in part to the railway, such deficits shall be paid upon demand of the Commission by the Corporation. Any arrears of the Corporation shall bear interest at the rate of six per cent. per annum. If the Corporation shall make default in payment of such deficits the Commission shall thereupon sell or otherwise dispose of so much of the debentures of the Corporation as shall be necessary to supply such deficiency at such rates of discount or premium and such terms and conditions as the Commission in its sole discretion shall deem to be in the interests of the railway, the proceeds of such debentures being used solely for the purposes herein contained.

(4) If the remaining debentures are insufficient in the opinion of the Commission to meet all payments required to be made by the Corporation under this Act or the said agreements, the Corporation is hereby authorized to and shall issue and deposit forthwith with the Commission similar debentures to an amount sufficient in the opinion of the Commission to make up the deficiency.

(5) All debentures issued and deposited with the Commission under this clause shall be held by the Commission as collateral security for the bonds issued by the Commission under clause 3, and for any payment required to be made by the Corporation under this agreement or the said Act.

6. In case the Commission shall at any time or times be prevented from operating the railway or any part thereof by strike, lockout, riot, fire, invasion, explosion, act of God or the King's enemies, or any other cause reasonably beyond its control, then the Commission shall not be bound to operate the railway or such part thereof during such time; but the Corporation shall not be relieved from any liability or payment under this agreement, and as soon as the cause of such interruption is removed the Commission shall, without any delay, continue full operation of the railway, and the Corporation shall be prompt and diligent in doing everything in its power to remove and overcome any such cause or causes of interruption.

7. It shall be lawful for, and the Corporation hereby authorize the Commission to unite the business of the railway with that of any other railway system operated in whole or in part by the Commission, and to exchange equipment and operators from one system to the other, proper provisions being made so that each system shall pay its proportionate share of the cost of any equipment used in common.

8. If at any time any other municipal corporation applies to the Commission for an extension of the railway into its municipality the Commission shall notify the applicant and the Corporation in writing of a time and place to hear all representations

that may be made as to the terms and conditions relating to such proposed extension. If, on the recommendation of the Commission, such extension shall be authorized, without discrimination of the applicant, as to the cost incurred or to be incurred for or by reason of any extension, the Commission may extend the railway upon such terms and conditions as may appear equitable to the Commission.

No such application for an extension of the railway into any municipality shall be granted if it is estimated by the Commission that the cost of service of the railway to the Corporation will thereby be increased or the revenue and accommodation be injuriously affected, without the consent of the Corporation.

9. The consent of the Corporation required under this agreement shall mean the consent of the Council of such Corporation, such consent being in the form of a municipal by-law duly passed by the Council of the Corporation.

10. The railway and all the works, property and effects held and used in connection therewith, constructed, acquired, operated and maintained by the Commission under this agreement and the said Act shall be vested in the Commission on behalf of the Corporation; but the Commission shall be entitled to a lien upon the same for all money expended by the Commission under this agreement and not repaid.

11. If at any time one or more of the municipalities through which the railway now passes or in which a part of the railway is situate applies to the Commission for admission as a party to this agreement for the acquisition and operation of the railway or for the extension thereof in or through the territory of such municipality upon such terms and conditions and subject to such contributions as if it had been a party to this agreement at the date thereof for the acquisition and operation of the said railway, the Commission shall take such steps and permit such votes to be taken as are necessary under the provisions of the said Act to authorize such municipality or municipalities to enter into an agreement under the Act to acquire such an interest.

The Corporation shall thereafter upon the request of the Commission enter into a new agreement with the Commission and the applying municipality or municipalities in the form, so far as applicable, of this agreement, and containing paragraphs 1 *m* and *o*: paragraph 2 *e* and paragraphs 5, 10, 12 and 13 of the standard form of agreement set out in *The Hydro-Electric Railway Act, 1914*, and such other provisions as may be approved by the Lieutenant-Governor in Council, and this agreement shall be deemed to be modified accordingly, and shall remain in full force and effect, subject only to such modifications.

12. This agreement shall continue and extend for a period of fifty years from the date hereof, and at the expiration thereof be subject to renewal with the consent of the Corporation, from time to time for like periods of fifty years. At the expiration of this agreement the Commission shall determine and adjust the rights of the Corporation, having regard to the amounts paid or assumed by the Corporation under the terms of this agreement, and such other consideration as may appear equitable to the Commission and are approved by the Lieutenant-Governor in Council.

13. This agreement shall not come into effect until it has been authorized by an Act of the Legislature of Ontario.

In witness whereof the Commission and the Corporation have respectively affixed their Corporate Seals under the hands of their proper officers.

THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO,

Chairman.

(Seal)

Secretary.

THE CORPORATION OF THE CITY OF TORONTO.

Mayor.

(Seal)

City Clerk.

MIMICO DIVISION.

The Mimico Division, as understood in this agreement, shall include all of the right-of-way, other lands and real estate, road bed, bridges, trestles, culverts, fences, signs, track, track tools, poles and fixtures, distribution system, shops, car houses, offices, stations, miscellaneous buildings, passenger cars, freight cars, service cars, shop equipment, furniture, stores, substations, substation equipment owned on the 1st day of December, 1920, by the Toronto & York Radial Railway Company, and operated on that date as the Mimico Division thereof and consisting of a single track line of electric radial railway with sidings, spurs, and all necessary appurtenances extending from the westerly limits of the City of Toronto, on the Toronto and Hamilton Highway to Port Credit, a distance of 8.37 miles, all as set out more particularly in the following schedule:

Right-of-Way.

At Mimico Creek, 2,756 ft.	2.71 acres.
New Toronto property, 37 ft. x 1,705 ft.	1.45 "
Long Branch (45 ft. and 50 ft.) x 1,416 ft.	1.52 "
Etobicoke Creek, 3,415 feet	6.77 "

Other Lands.

Humber property.

Lake Shore Road and Queen St.

344 ft. X (143 ft. and 95 ft.)

75 ft. x 210 ft.

63 ft. x 219 ft.

25 ft. x 233 ft. 1.967 acres.

Roadway.

Extending from West Toronto city limits on Lake Shore Rd. to Port Credit, including bridges, trestles and culverts, track work with all turnouts and sidings, poles and fixtures, distribution system with feeders and telephone system, fences and signs.

Roadway, Machinery and Tools.

Roadway, machinery and tool equipment in possession of maintenance of way force on way and structures.

Furniture.

Furniture and fixtures in the following buildings:

Foreman's office at car barns.

Sunnyside despatching office.

Waiting room at Sunnyside.

Passenger and Miscellaneous Cars.

17 motor passenger cars and 8 miscellaneous cars.

Stations and Miscellaneous Buildings.

Humber—Shelter, 12 ft. 5 in. x 8 ft. 8 in., frame building, shingle roof.

Shelter and candy shop, irregular shape, frame building.

Stop 14—Shelter, 10 ft. x 6 ft., frame lean-to.

"	18	"	"	"	"	"
"	29	"	"	"	"	"
"	31	"	"	"	"	"
"	35	"	"	"	"	"

Substations and Substation Railway Equipment.

- Property used for railway purposes.
- Humber substation—sheet iron building.
- Railway equipment—2,500 k.w. induction motor generator sets.
- Switching equipment for above.

Material and Supplies.

- All materials stored along the line.

Motor Equipment for Cars.

General Electric, 67 motors, 40 h.p.	44
General Electric, 57 motors, 50 h.p.	28
	—
	72

Shop Equipment.

- All small tools and electrical equipment, air-brake equipment, trucks, miscellaneous car parts and miscellaneous store-room supplies in Sunnyside car barns.

SCHEDULE "A" (c).

Draft agreement relating to the Scarboro Division;

This indenture made the first day of December, in the year of our Lord, one thousand nine hundred and twenty,

Between:

The Hydro-Electric Power Commission of Ontario (hereinafter called the "Commission") of the first part,

and

The Corporation of the City of Toronto (hereinafter called the "Corporation"), of the second part.

Whereas the Commission has, at the request of the Corporation, acquired for and on behalf of the Corporation certain properties of the Scarboro Division of the Toronto and York Radial Railway Company, all as described and set out in Schedule "A" (c) hereto, and hereinafter called the "Railway," to be controlled, equipped and operated under the terms of *Th Hydro-Electric Railway Act, 1914*, and of a special Act authorizing this agreement;

And whereas the Corporation has requested the Commission to control, equip and operate, and the Commission has agreed with the Corporation on behalf of the Corporation to control, equip and operate the railway upon the terms and conditions and in the manner herein set forth; but upon the express condition that the Commission shall not in any way be liable for any financial or other obligation or loss whatsoever by virtue of this agreement or arising out of the performance of the terms thereof.

And whereas the electors of the Corporation have voted in favour of authorizing the Corporation to enter into the necessary agreements with the Commission for acquiring the railway;

And whereas the Corporation has issued debentures for the amounts set forth in clause 2 b hereof, and has deposited the said debentures with the Commission.

Now therefore, this indenture witnesseth:—

1. In consideration of the premises and of the agreements of the Corporation herein contained, and subject to the provisions of the said Acts and amendments thereto, the Commission agrees with the Corporation.

(a) To equip and operate the railways on behalf of the Corporation, subject to clauses 11 and 12 hereof;

(b) To issue bonds, as provided in clause 3 hereof, to cover the cost of acquiring the railway;

(c) To furnish as far as possible first-class modern and standard equipment for use on the railways, to operate this equipment so as to give the best service and accommodation possible, having regard to the district served, the type of construction and equipment adopted and all other equitable conditions, and to exercise all due skill and diligence so as to secure the most effective operation and service of the railways consistent with good management;

(d) To regulate and fix the fares and rates of toll to be collected by the railway for all classes of service;

(e) To utilize the routes and property of the railways for all purposes from which it is possible to obtain a profit;

(f) To combine the property and works of the railway and the power lines of the Commission where such combination is feasible and may prove economical to both the railway and users of the power lines;

(g) To permit and obtain interchange of traffic with other railway, wherever possible and profitable; provided always, and it is hereby agreed, that the Commission will not operate any of the trams, cars or other rolling stock of said railway on any highway within the limits of the City of Toronto without first obtaining the consent of the Corporation;

(h) To supply electrical power or energy for operation of the railway at rates consistent with those charged to municipal corporations;

(i) To apportion annually the capital costs and operating expenses of all works, apparatus and plant used by the railway in common with the Commission's transmission lines in a fair manner, having regard to the service furnished by the expenditure under consideration;

(j) To apply the revenue derived from operation of the railway and any other revenue derived from the undertaking to the payment of operating or working expenses, including the supply of electrical power or energy, and the cost of administration and annual charges for interest and sinking fund on the money invested, and such other deductions as are herein provided for;

(k) To set aside from any revenue thereafter remaining an annual sum for the renewal of any works belonging in whole or in part to the undertaking;

(l) To take active steps for the purpose of taking over, equipping and operating the railway at the earliest possible date after the execution of this agreement by the Corporation and the deposit of the debentures as called for under clause 2 b hereof;

(m) To pay over annually to the Corporation, if deemed advisable by the Commission in the interests of the undertaking, any surplus that may remain after providing for the items above mentioned.

2. In consideration of the premises and of the agreements herein set forth, the Corporation agrees with the Commission:—

(a) To bear as hereinafter provided the cost of acquiring, equipping, operating, maintaining, repairing, renewing and insuring the railway and its property and works as established by the Commission;

(b) To issue debentures to the amount of \$240,000.00, maturing in fifty years from 1st December, 1920, and bearing interest at a rate of six per centum per annum, payable half-yearly at the office of the City Treasurer in the City of Toronto, Ontario, which shall be deposited with the Commission previous to the issuing of the bonds herein-after mentioned. The said debentures are similar to debentures to be issued by the Corporation under the provisions of two other agreements between the parties hereto of even date herewith respecting the Metropolitan Division and the Mimico Division of the Toronto and York Radial Railway, and the total amount of debentures to be issued by the Corporation under the three agreements, for the acquisition of the three railways is \$2,375,000.00;

(c) To make no agreement or arrangement with, and to grant no bonus, license or other inducement to any other railway or transportation company without the written consent of the Commission;

(d) To keep, observe and perform the covenants, provisos and conditions set forth in this agreement intended to be kept and observed and performed by the Corporation, and to execute such further or other documents and to pass such by-laws as may be requested by the Commission for the purpose of fully effectuating the objects and intent of this agreement.

3. It shall be lawful and the Commission is hereby authorized to create or cause to be created an issue of bonds to be charged upon and secured by the railway and its undertaking, and all the assets, rights, privileges, revenue, works, property and effects belonging thereto and to be for the amount of \$240,000.00, provided that the Commission may, upon obtaining the consent as herein defined of the Corporation, increase the said bond issue by any amount necessary to cover the capital cost of extensions, improvements and additional works or equipment of any kind for use on the railway, and provided that with the approval of the Lieutenant Governor in Council the Commission may dispose of any property not required for the purpose of the railway and use or dispose of the whole or part of the proceeds thereof in expenditure on capital account or invest the whole or part thereof in security of the Province of Ontario for the retirement of the said bonds at maturity.

4. In order to meet and pay such bonds and interest as the same become due and payable the Commission shall in each year after the expiration of ten years from the date of the issue of the bonds out of the revenue of the railway after payment of operating or working expenses, including the supply of electrical power or energy and the cost of administration and annual charge for interest, set aside annually such sums as may be necessary to provide a sinking fund, on basis of not more than forty years for the payment of all the said bonds which shall be held for and applied toward the payment of such bonds or any renewals thereof, at maturity, and the Commission shall have power from time to time to issue bonds under the provisions of the said Special Act for the purpose of providing for such additional money as may be necessary with the accumulated sinking fund on hand to repay the bonds so issued when the same

respectively mature, provided that the sum so set aside for sinking fund shall be sufficient to provide for payment of all the bonds issued on account of the said railway within fifty years from the said first day of December, 1920.

5. (1) The Corporation is authorized to issue debentures to the amount of \$240,000.00, payable in fifty years from 1st day of December, 1920, and bearing interest at the rate of six per cent. per annum, payable half-yearly.

(2) Upon the execution of the said agreements the Corporation shall issue and deposit the said debentures with the Commission; and is further authorized to and shall, from time to time thereafter upon the requisition in writing of the Commission, issue and deposit with the Commission further similar debentures for the same amount of any increase as provided in subsection 3 of section 9, of the bond issue of the Commission to cover the capital cost of extensions or improvements of the railway.

(3) In the event of the revenue derived from the operation of the railway being insufficient in any year to meet the operating or working expense, including the electric power or energy and the cost of administration and the annual charges for interest and sinking funds on the bonds and for the renewal of any works belonging in whole or in part to the railway, such deficits shall be paid upon demand of the Commission by the Corporation. Any arrears of the Corporation shall bear interest at the rate of six per cent. per annum. If the Corporation shall make default in payment of such deficits the Commission shall thereupon sell or otherwise dispose of so much of the debentures of the Corporation as shall be necessary to supply such deficiency at such rates of discount or premium and such terms and conditions as the Commission in its sole discretion shall deem to be in the interests of the railway, the proceeds of such debentures being used solely for the purposes herein contained.

(4) If the remaining debentures are insufficient in the opinion of the Commission to meet all payments required to be made by the Corporation under this Act or the said agreements, the Corporation is hereby authorized to and shall issue and deposit forthwith with the Commission similar debentures to an amount sufficient in the opinion of the Commission to make up the deficiency.

(5) All debentures issued and deposited with the Commission under this clause shall be held by the Commission as collateral security for the bonds issued by the Commission under clause 3, and for any payment required to be made by the Corporation under this agreement or the said Act.

6. In case the Commission shall at any time or times be prevented from operating the railway or any part thereof by strike, lockout, riot, fire, invasion, explosion, act of God, or the King's enemies, or any other cause reasonably beyond its control, then the Commission shall not be bound to operate the railway or such part thereof during such time; but the Corporation shall not be relieved from any liability or payment under this agreement, and as soon as the cause of such interruption is removed the Commission shall, without any delay, continue full operation of the railway, and the Corporation shall be prompt and diligent in doing everything in its power to remove and overcome any such cause or causes of interruption.

7. It shall be lawful for, and the Corporation hereby authorizes the Commission to unite the business of the railway with that of any other railway system operated in whole or in part by the Commission, and to exchange equipment and operators from one system to the other, proper provision being made so that each system shall pay its proportionate share of the cost of any equipment used in common.

8. If at any time any other municipal corporation applies to the Commission for an extension of the railway into its municipality the Commission shall notify the applicant and the Corporation in writing of a time and place to hear all representations

that may be made as to the terms and conditions relating to such proposed extension. If, on the recommendation of the Commission, such extension shall be authorized, without discrimination of the applicant, as to the cost incurred or to be incurred for or by reason of any extension, the Commission may extend the railway upon such terms and conditions as may appear equitable to the Commission.

No such application for an extension of the railway into any municipality shall be granted if it is estimated by the Commission that the cost of service of the railway to the Corporation will thereby be increased or the revenue and accommodation be injuriously affected without the consent of the Corporation.

9. The consent of the Corporation required under this agreement shall mean the consent of the Council of such Corporation, such consent being in the form of a municipal by-law duly passed by the Council of the Corporation.

10. The railway and all the works, property and effects held and used in connection therewith, constructed, acquired, operated and maintained by the Commission under this agreement and the said Act shall be vested in the Commission on behalf of the Corporation; but the Commission shall be entitled to a lien upon the same for all money expended by the Commission under this agreement and not repaid.

11. If at any time one or more of the municipalities through which the railway now passes or in which a part of the railway is situate applies to the Commission for admission as a party to this agreement for the acquisition and operation of the railway or for the extension thereof in or through the territory of such municipality upon such terms and conditions and subject to such contributions as if it had been a party to this agreement at the date hereof for the acquisition and operation of the said railway, the Commission shall take such steps and permit such votes to be taken as are necessary under the provisions of the said Act to authorize such municipality or municipalities to enter into an agreement under the Act to acquire such an interest.

The Corporation shall thereafter upon the request of the Commission enter into a new agreement with the Commission and the applying Municipality or Municipalities in the form, so far as applicable, of this agreement and containing paragraph 1 *m* and *o*; paragraph 2 *e* and paragraphs 5, 10, 12 and 13 of the standard form of agreement set out in *The Hydro-Electric Railway Act, 1914*, and such other provisions as may be approved by the Lieutenant Governor in Council and this agreement shall be deemed to be modified accordingly, and shall remain in full force and effect, subject only to such modifications.

12. This agreement shall continue and extend for a period of fifty years from the date thereof, and at the expiration thereof be subject to renewal, with the consent of the Corporation, from time to time for like periods of fifty years. At the expiration of this agreement the Commission shall determine and adjust the rights of the Corporation, having regard to the amounts paid or assumed by the Corporation under the terms of this agreement, and such other consideration as may appear equitable to the Commission and are approved by the Lieutenant Governor in Council.

13. This agreement shall not come into effect until it has been authorized by an Act of the Legislature of Ontario.

In witness whereof the Commission and the Corporation have respectively affixed their corporate Seals under the hands of their proper officers.

THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO,

Chairman.

(Seal)

Secretary.

THE CORPORATION OF THE CITY OF TORONTO.

Mayor.

(Seal)

City Clerk.

SCARBORO DIVISION.

The Scarboro Division, as understood in this agreement, shall include all of the right-of-way, other lands and real estate, road bed, bridges, trestles, culverts, fences, signs, track, track tools, poles and fixtures, distribution system, shops, car houses, offices, stations, miscellaneous buildings, ballast pits, park and resort property, passenger cars, freight cars, service cars, shop equipment, furniture, stores, substations, substation equipment, owned on the 1st day of December, 1920, by the Toronto and York Radial Railway Company, and operated on that date as the Scarboro Division thereof, and consisting of a single track line of electric radial railway, with sidings, spurs, and all other necessary appurtenances extending from the easterly limits of the City of Toronto on the Kingston Road to West Hill, a distance of 8.3 miles, together with certain parcels of real estate, all as set out more particularly in the following schedule:

Right-of-Way.

1.85 miles, 40 ft. wide—11.97 acres.

Other Lands.

Substation property—

Part of Lot No. 35, N. side Kingston Rd.
Scarboro Twp., 100 x 200—0.458 acres.

Car barn property—

Part of Lot No. 32, S. side Kingston Rd.
Scarboro Twp., 167 ft. x (180 ft. and 253 ft.)—0.75 acres.

Park property—

Part of Lot No. 21, S. side Kingston Rd.
Scarboro Twp., 791 ft. x 4,013 ft.—58.2 acres.

Farm near gravel pit—

Part of Lot No. 14, N. side Kingston Rd.
Scarboro Twp.—95 acres.

Roadway.

Extending from easterly limits of Toronto on the Kingston Road to West Hill, including bridges, trestles and culverts, track work, with all turnouts and sidings, poles and fixtures, distribution system, with feeders, telephone system, fences and signs.

Roadway, Machinery and Tools.

Roadway, machinery and tool equipment in possession of maintenance of way forces on way and structures.

Stations, Miscellaneous Buildings and Structures.

- Stop 18—Car barns, 122 ft. x 60 ft., brick building, flat roof.
 Stop 15—Shelter, 14 ft. 2 in. x 12 ft., frame lean-to building.
 Hunt Club (Stop 17)—Shelter, 10 ft. x 10 ft., frame building, French roof.
 Stop 20—Shelter 12 ft x 7 ft. 6 in., steel frame, galvanized iron siding.
 Brimley Rd. (Stop 28)—Shelter, 7 ft. x 4 ft. 2 in., frame building.
 Scarboro Heights (Stop 33)—Pavilion, 79 ft. 8 in. x 40 ft. 7 in., frame building;
 cook house roof, 16 ft. 2 in. x 14 ft. 2 in., frame building, Ell 12 ft. x 5 ft.
 Stop 34—Shelter, 10 ft. x 10 ft., frame building.
 Stop 35—Shelter, 10 ft. 4 in. x 10 ft. 3 in., frame building, French roof.
 Scarboro Golf Club (Stop 38)—Shelter, 23 ft. 5 in. x 8 ft. 5 in., frame building,
 flat roof.
 Sta. 357—Tool house, 16 ft. 4 in. x 12 ft., frame building.
 Stop 44—Shelter, 10 ft. x 8 ft., frame building.

Furniture.

All furniture and fixtures contained in car barns.

Substation and Substation Railway Equipment.

Property used for railway purposes.

Scarboro Substation.

Frame buildings, 37 ft. x 20 ft. and 23 ft. x 15 ft.

Railway equipment.

1,500 k.w. induction motor generator set.

Switching equipment for above.

Materials and Supplies.

All materials and supplies stored at various points along the line.

Passenger, Service and Miscellaneous Cars.

2 single truck passenger cars.

6 double truck passenger cars.

4 miscellaneous cars.

Electric Equipment for Cars.

General Electric, 67 motors, 40 h.p.....	32
--	----

General Electric, 57 motors, 50 h.p.....	4
--	---

Westinghouse 101B motors, 40 h.p.....	2
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Total motors	38
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Shop Equipment.

All small tools contained at Scarboro shops.

Materials and Supplies.

All electrical equipment, air-brake equipment, truck parts, miscellaneous car parts,
 and miscellaneous store-room supplies.

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